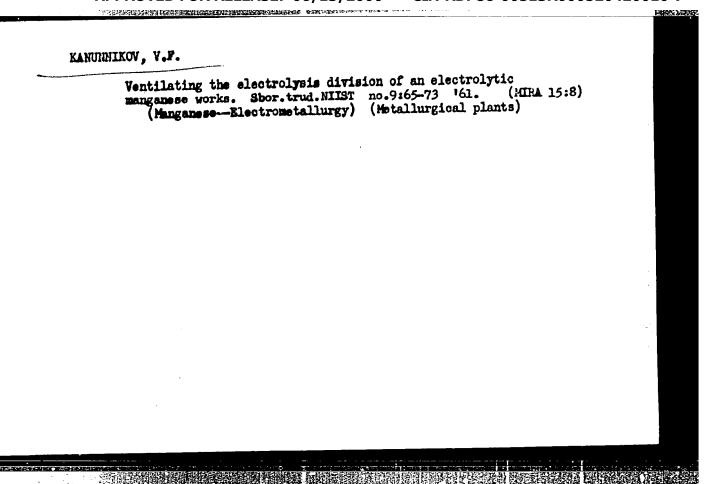


KANUNNIKOV, V.B., inzh.; ROVNYAKOV, I.I. Automution of a drying unit. Mekh.i avtom.proizv. 18 no.3: 12-13 Mr '64. (MIRA 1 (MIRA 17:4)

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KANUNNIKOV, VI

USSR/ Electronics - Voltmeters

Card 1/1 Pub. 89 - 26/30

authors :

Kammnikov, V.

Title

: Tube voltmeter

Periodical : Radio 6, 53 - 54, Jun 1955

Abstract

Report offers a general description of an ohmmeter consisting of a DC-tube voltmeter, tube and current stabilizer. The potentiometer is used in securing the required anode current and the necessary limits for its control. The tube voltmeter, representing a balanced cascade consisting of two cathodo repeaters, makes it possible to measure the voltage of any given polarity relative to the ground. Other characteristics of the tube voltmeter are listed. Table; circuit diagrams.

Institution:

Submitted :

FARIMALKOV, V.N.: SHORIE, K.N.

Universal "ferremeter" used for measuring magnetic fields in synchrotrons. Prib.i tekh.eksp.ne.3:22-25 H-D 156.

1. Finisheskiy institut in. P.S.Lebedeva AN SSER.
(Electronic instruments) (Nagmetic fields---Heasurement) (Synchrotron)

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or of X. N.

BRLYAK, A.Ya.; VRKSLER, V.I.; KAHUHHIKOY, V.M.; CHERENKOY, P.A.; YABLOKOY, B.M.

Special features of the 280 New synchrotron operated by the Institute of Physics, U.S.S.R. Academy of Sciences. Atom.energ.supplement no.4:57-72 '57. (MIRA 10:10)

(Synchrotron)

3(1), 9(0)

SOV/112-59-5-9453

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, p 142 (USSR)

AUTHOR: Kanunnikov, V. N.

TITLE: Electronic Time Relay for Determining the Error in Measuring the Duration of Meteor Flight

PERIODICAL: Byul. Vses. astron.-geod. o-va, 1958, Nr 21, pp 41-44

ABSTRACT: A time relay is described that secures single flashes of a neon lamp of 0.05-10 sec duration. The relay comprises a cathode-coupled monostable multivibrator designed with one 6N8 tube, one MN-3 neon lamp, two switches, and a potentiometer for measuring flash duration. Two illustrations.

Bibliography: 4 items.

B.A.K.

Card 1/1

21.9000

75330 sov/57-29-10-7/18

AUTHORS:

Kanunnikov, V. N. Fateyev, A. P.

TITLE:

On Calculation of the Magnet of a Circular Synchrocyclotron

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, 1959, Vol 29, Nr 10, pp 1228-1234

(USSR)

ABSTRACT:

The paper discusses changes in the density of magnetizing current in the magnet of a circular synchrocyclotron with distributed windings. The method of magnetostatic potential q is first applied to an ideal case of an infinite winding, and distortions taking place in an actual magnet are then considered. The magnetostatic potential of an ideal case is represented as a harmonic function q (r,z), where r is the radius from the center of the synchrocyclotron in the average plane, and z is a point on the axis of coordinates, with Bessel functions under the sign of the integral of the equation. After using the Kelvin transformation, an expression for the density of magnetizing current is given. The integration of this equation gives the law of changes of ampere-turns I(r). When the magnetizing to the are

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On Calculation of the Magnet of a Circular Synchrocyclotron

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not continuously distributed, distortions occur. In order to evaluate these distortions the magnetic field must be considered for a case when the density of magnetizing current is given a priori. To this purpose the study considers a magnet with an airgap increasing in proportion to the increase of the radius. Having set a certain density of magnetizing current an equation is derived for the magnetostatic potential for the particular case. The paper then discusses field distortions due to the finite dimension of the windings when there are spaces on the magnet, without any winding on it, and when the edges have their effect. In such a case the component of the field that underwent the change must be compensated by a supplementary winding on the magnet's yoke. An expression is written giving the magnitude of the component of the current which must be compensated. A field distortion is also discussed when the actual distribution of current density differs from that assumed a priori. Expressions for the distortion of the field index are given for a constant airgap for cases of distortion on one pole only and for distortion of the average magnetic plane. The compensatory windings must be arranged so as to give a uniform field distrib-

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On Calculation of the Magnet of a Circular Synchrocycloteon

75576 304/57-10-7/13

ution on the particular part of the magnet. Corver are given showing the change in field distortion obtained after the distortions have been compensated. Kolomenskiy, A. A., assisted in the study. There are 3 figures and 4 Soviet references.

ASSOCIATION:

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P. N. Lebedeva), For not

SUBMITTED:

December 11, 1958

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S/120/60/000/02/037/052 B032/E414

21,2100

AUTHOR:

TITLE:

Kanunnikov, V.N.

Design Calculations for Magnets with Distributed

Windings

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, Nr 2,

pp 136-139 (USSR)

ABSTRACT:

The magnetic field of accelerators with strong focusing and constant magnetic field is subject to a number of specific requirements. It must increase rather rapidly with radius according to the law H~r-no and have an azimuthal period of 277/N. Moreover, the field index n = -(r/H)(3H/3r) and the number of elements N, must be chosen so as to satisfy the conditions for the stability of betatron oscillations of the particles. The most rational method of producing such magnetic fields is to use magnets with distributed windings. For example, the magnetic system of the ring phasotron consists of 2 N sectors and the direction of the field in adjacent sectors is opposite. In order to obtain such a field distribution the height of the air gap and the azimuthal width of the sectors and intervals must be made

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Design Calculations for Magnets with Distributed Windings

proportional to the radius. The radial increase in the field can in that case be obtained by a suitable distribution of the density of the magnetizing ampere-The form of this distribution can be obtained by solving the Laplace equation for the scalar magnetic potential. Since the law of change in the magnetic field should be maintained to a high degree of accuracy, while in a real magnetic system the required distribution of ampere-turns is satisfied only approximately, the problem arises as to what is the permissible magnitude of the deviations from this distribution and what methods can be employed to correct the possible distortions of the magnetic field. present paper gives a method for estimating the permissible deviations of the magnetizing current density for given distortions of the magnetic field. A solution is given of a number of typical problems which are met with in the design of magnets with distributed windings. It is assumed that the magnetic permeability of the material

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Design Calculations for Magnets with Distributed Windings

of the poles is infinitely large and the current layer on their surface infinitely thin. The calculation is concerned with the simplest two-dimensional problem of unbounded poles and a constant air gap. of such a magnet and the system of coordinates employed are shown in Fig 1. The solution of the Laplace equation for the scalar magnetic potential subject to boundary conditions which are obvious from the above assumptions and from Fig 1, is of the form given by Eq (1) and (2). Using these formulae with a given current density distribution $\delta_{1,2}(r)$ (amp/cm), one can determine the magnetic field at any point in the air gap with the aid of the relation $H = - \operatorname{grad} \varphi$. assumed that the current density distribution $\delta_{1,2}(r) = \delta_0(r)$, necessary to obtain the required field distribution $H_{20}(r,0)$, is known. These distributions are ideal and the real distributions are in fact $\delta = \delta_0 + \Delta \delta$, $H = H_0 + \Delta H$. A relation is then sought between the relative distortion of the current density $a_b = \Delta b/b_0$ and the relative distortion of the

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Design Calculations for Magnets with Distributed Windings

magnetic field $\alpha_H = \Delta H/H_0$. The other distortions are defined similarly. In order to determine the above relation between the current and field distortions, the change in the potential $\Delta \phi$ due to the deviation of the current density $\Delta \delta$ can be calculated using Eq (1) and the superposition principle. The distortion in the magnetic field distribution is calculated in this way for the following two simple cases: (1) the deviations of the current density on both poles are sinusoidal and given by Eq (8), where the length of the winding is 2ro; (2) symmetric system of windings with a constant current density and defined by Eq (11). The results for the last two cases are given by Eq (9) and (10) and Eq (13), respectively. The final section is concerned with the distortions of the median magnetic plane. These are calculated with The amplitude of the the aid of Eq (1) and (3). relative distortion of the median magnetic plane due to Card 4/5 the presence on one of the poles of a harmonic component

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Design Calculations for Magnets with Distributed Windings

of the current density is given by Eq (14). correction of the position of the median magnetic plane can be obtained with the aid of special windings producing only a radial component in the median plane of the gap. These coils are in the form of a symmetric system analogous to that defined by Eq (11) but with the current in the upper and lower poles in opposite directions. A calculation of the radial component of the magnetic field in the plane of symmetry of the air gap leads to Eq (15) and hence, using Eq (3), the displacement of the median magnetic plane due to the coil can be calculated. Acknowledgment is made to A.A.Kolomenskiy for his interest in this work. There are 1 figure and 8 references, 5 of which are Soviet, 2 English and 1 French.

ASSOCIATION: Fizicheskiy institut AN SSSR (Physics Institute AS USSR) SUBMITTED: February 16, 1959 Card 5/5

ACCESSION NR: AP4002277

\$/0139/63/000/005/0118/0123

.AUTHOR: Kanunnikov, V. N.

TITLE: On the methods of designing magnetic systems for constant-field circular accelerators

SOURCE: IVUZ. Fizika, no. 5, 1963, 118-123

TOPIC TAGS: constant field accelerator, distributed winding accelerator, accelerator magnetic circuit, strong focusing accelerator, accelerator magnetic field, distributed winding design, distributed winding field, gradient, high energy accelerator, particle accelerator, circular accelerator

ABSTRACT: For given parameters the method of calculating the magnetic field of a pole piece, the distributed windings, and the magnetic circuit of a constant field synchrocyclotron type circular accelerator has been outlined. In spherical coordinated ρ , ϕ , the field distribution is assumed to be given by

 $H|_{\alpha=0} = H_0 \left(\frac{P}{P_0}\right)^n \cdot f(\varphi),$ $n = \text{const} > 0, \text{ and } f(\varphi) = f\left(\varphi + \frac{2\pi}{N}\right).$

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ACCESSION NR: AP4002277

The solution of the scalar magnetic potential is derived for the general three-dimensional geometry, and for practical estimates the two-dimensional solution is given. The winding distribution is discussed in a form where it can represent an infinitely thin current sheet on the surface of iron poles with infinite permeability. The effect of finite permeability on the field strength is then analyzed under three catagories: the radial decay of magnetic field, the finite resistivity of the core, and the residual field from hysteresis losses. Orig. art. has: 24 formulas.

ASSOCIATION: Fizicheskiy institut imeni P. N. Lebedeva AN SSSR (Institute of Physics AN SSSR)

SUBMITTED: 02Jul62

DATE ACQ: 02Dec63

ENCL: 00

SUB CODE: PH

NO REF SOV: 005

OTHER: 005

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ACCESSION NR: AP3000016

AUTHOR: Kemunnikov, V. N.

TITIE: Problems in design of the magnet for an annular synchrocyclotron 19

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 33, no. 5, 1963, 592-602

TOPIC TAGS: cyclotrons, magnets, accelerators

ABSTRACT: A number of new problems arise in designing magnets for annular synchrocyclotrons, the field of which is characterized by a number of distinctive features. Some of the design problems have been considered earlier by the author (PTE, No. 2, 1960 and ZhTF, 29, 1228, 1959). In the present paper the author derives expressions for the shape of the profiled pole pieces and the winding distribution for a real azimuth dependent field by the method of solution of the pertinent three-dimensional Isplace equation. Also considered are some new problems associated with design of magnets with distributed windings; there are deduced equations for the effective magnetic flux and the stray flux; there is found the approximate azimuthal dependence of the field; the effect of the

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finite value of the permeability on the field distribution is evaluated; indications are given regarding the design of auxiliary windings for smooth regulation of the field index over the working region of the magnet. "The author is grateful to Prof. A. A. Kolomenskiy for his interest and support in the work." Orig. art. has: 31 display equations and 6 figures.

ASSOCIATION: none

SUBMITTED: 03May62

DATE ACQ: 12Jun63

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OTHER: 004

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L 1223-66 ENT(m)/EPA(w)-2/ENA(m)-2 IJP(c) GS S/0000/64/000/000/0653/0657 37 ACCESSION NR: AT5007945

AUTHOR: Kanunnikov, V. N.; Kolomenskiy, A. A.; Ovchinnikov, Ye. P.; Troyanov, I

Ye. F.; Fateyev, A. P.; Yablokov, B. N.

TITLE: Some results of the work on starting the symmetrical electron ring-phasotron at FIAN

SOURCE: International Conference on High Energy Accelerators. Dubna, 1963. Trudy. Moscow, Atomizdat, 1964, 653-657

TOPIC TAGS: electron accelerator, synchrotron

ABSTRACT: The Physics Institute im. P. N. Lebedev, AN SSSR, is developing new accelerators of the ring-phasotron type. The principal idea of the development is to replace the growth of the magnetic field in time, which holds true in the case of synchrotron-type accelerators, by its growth in space in correspondence with the growth of the particles' energy. This permits increasing the intensity of the beam of accelerated particles, and also, by utilizing the accumulation of particles in a constant field, realization of the method of counter collisions of relativistic particles. As has been clear from the very beginning of the work, the complexity and novelty of the problem could not permit the work to be limited to theocard 1/3

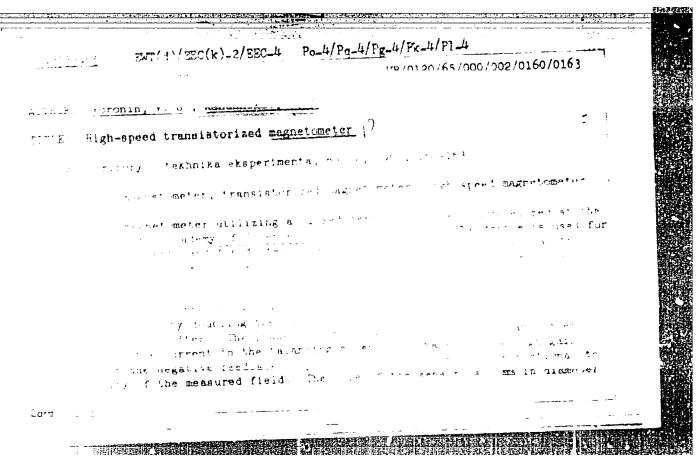
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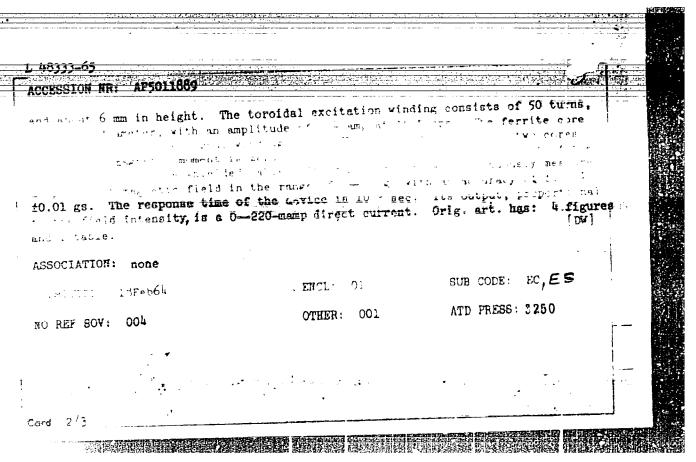
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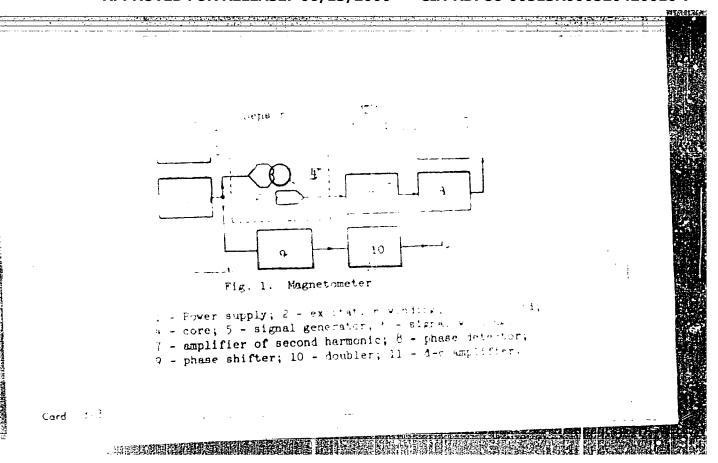
retical investigations. It was decided to construct a comparatively small accelerator, the symmetrical 30-Mev electron ring-phasotron, ensuring the simultaneous acceleration of two electron beams moving in opposite directions. This accelerator has to serve as a sufficiently flexible and resourceful basis for experiments on the creation of strong-current accelerators and accumulators. It was planned, in particular, to investigate with it various injection alternatives, accelerator regimes, and also the process of storing one and two counter beams. The principal results of the theoretical and experimental works completed in connection with the development of this accelerator have been published (V. N. Kanunnikov, et. al., Proc. International Conference on High Energy Accelerators, CERN, 1959, p. 89). The present report describes the main difficulties which were overcome in the initial period of starting the installation, and notes the results obtained up to the present moment. The principal parameters of the ring-phasotron are discussed, as well as the measurement and correction of its magnetic field. The characteristics of the beam during static operation are investigated. "The authors wish to thank for their participation workers of various organizations, expecially the associates of the Physics Institute: V. S. Voronin, L. N. Kazanskiy, D. D. Krsil'nikov, A. N. Lebedev, S. S. Semenov, and of the Scientific-Research Institute of Electro-

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AP5021367 ACCESSION NR:

UR/0120/65/000/004/0217/0218

621.384.6399

Kazanskiy, L. N.; AUTHOR:

TITLE: Pulsed system of inductive acceleration for annular synchrocyclotrons

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1965, 217-218

TOPIC TAGS: particle acceleration, electron accelerator, MEV accelerator

ABSTRACT: The induction acceleration in electron annular synchrocyclotrons permits the production of a high mean particle beam intensity due to the constancy of the control magnetic field. An inductive system may be found useful also during numerous experiments investigating the acceleration and storage of large currents. The present article describes such a pulsed system of inductive electron acceleration with 50 cps repetition frequency developed for the electron annular synchrocyclotron of the FIAN. The machine has betatron cores made of transformer steel. Difficulties caused by a low Q-factor and low coupling coefficient are overcome by the addition of the emfs from two betatron cores. The total pulse secures a fast widening of the orbit (amplitude is 1600 V, and duration 3 µsec) and an acceleration up to an energy of 0.5 MEV (280 V, 90 µsec) with a subsequent trapping into the high frequency operating condition. Orig. art. has: 3 figures. Card 1/2

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SOURCE CODE: UR/0120/66/000/001/0143/0146

AUTHOR: Voronin, V. S.; Kanunnikov, V. N.

ORG: Institute of Physics, AN SSSR (fizicheskiy institut AN SSSR)

TITLE: Multichannel current stabilizer

SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1966, 143-146

TOPIC TAGS: current stabilization, synchrotron

ABSTRACT: A new multichannel current stabilizer is intended for supplying five windings (270, 11, 1.1, 10, 0.1 amp) of a strong-focusing ring-type synchrotron (FIAN). One common source - a self-excited d-c generator - is used for supplying all five channels; the shunt-field rheostat is replaced with a transistor. At low voltages the transistor resistance is very low, and the field circuit is practically shorted. As the current flowing through the transistor increases, its differential resistance, too, increases; the field current becomes independent of the generator voltage. By using a control current equal to a few per cent field current, the generator voltage can be regulated within its entire range, from its residual-field

Card 1/2

UDC: 621.316.721.1.024

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value to its nominal value. On the above principle, a stabilizer with a PN-290, shunt-wound, 115-v, 287-amp, d-c generator was built and tested. Current-regulation in each channel, 10-120%; stabilization power, 10 kw; stabilizer consumption, 60 w; a current stability of 20,05% was attained by using direct-consultion, 60 w; a current stability of 10,05% was attained by using direct-coupled Si-transistor amplifiers and temperature compensation. "In conclusion, the authors wish to thank A. A. Kolomenskiy for his help in carrying out the project, authors wish to thank A. A. Kolomenskiy for his help in carrying out the project, and N. S. Shilkin for his participation in building the device." Orig. arts has: SUB CODE: 18, 09 / SUBM DATE: 24Dec64 / ORIG REF: 002 / OTH REF: 002 ATD PRESS: 4223

ACC NR: AF6021328 SOURCE CODE: UR/0089/66/020/006/0513/0514 AUTHOR: Kolomenskiy, A. A.; Kamunnikov, V. N.; Kazanskiy, L. N.; Ovchinnikov, Ye. P.; Papadichev, V. A.; Semenov, S. S.; Fattyev, A. P.; Yablokov, B. N. ORG: none TITLE: Starting of a new accelerator - symmetrical annular FM synchrotron of the Physics Institute im. P. N. Lebedev AN SSSR SOURCE: Atomnaya energiya, v. 20, no. 6, 1966, 513-514 TOPIC TAGS: electron accelerator, synchrotron/ KF electron accelerator ABSTRACT: This is a brief report of the starting of a new experimental symmetrical annular FM synchrotron (KF installation). It is a strong-focusing accelerator with constant magnetic field, in which the time variation of the magnetic field is replaced by a radial increase of the field in accordance with the growth of the particle energy. The accelerator was proposed by one of the authors (Kolomenskiy, ZhETF v. 33, 298, 1957; Atomnaya energiya v. 3, 492, 1957) and its construction is described in detail elsewhere (V. N. Kamunnikov et al., in: Trudy Mezhdunarodnoy konferentsii po uskoritelyem, Dubna, 1965 [Transactions of International Conference on Accelerators, Dubna, 1963] Atomizdat, 1964, p. 653). The article describes briefly the magnet, the initial operation, the accelerating system, the electron injection, and some of the preliminary results. The authors thank V. S. Voronin, D. D. Krasil'nikov, A. N. Lebedev, O. A. Smirnov, V. M. Gapanovich, N. V. Platonov, G. T. Ponomarev, V. A. Ryabov, Ye. Card 1/2 UDC: 621.384.612.4	L 06995-67 EWT(m) IJP(c)
ORG: none TITLE: Starting of a new accelerator - symmetrical annular FM synchrotron of the Physics Institute im. P. N. Lebedev AN SSSR SCURCE: Atomnaya energiya, v. 20, no. 6, 1966, 513-514 TOFIC TAGS: electron accelerator, synchrotron/ KF electron accelerator ABSTRACT: This is a brief report of the starting of a new experimental symmetrical annular FM synchrotron (KF installation). It is a strong-focusing accelerator with constant magnetic field, in which the time variation of the magnetic field is replaced by a radial increase of the field in accordance with the growth of the particle energy. The accelerator was proposed by one of the authors (Kolomenskiy, ZhETF v. 33, 298, 1957; Atomnaya energiya v. 3, 492, 1957) and its construction is described in detail elsewhere (V. N. Kamunnikov et al., in: Trudy Mezhdunarodnoy konferentsii po uskoritelyam, Dubna, 1965 [Transactions of International Conference on Accelerators, Dubna, 1963] Atomizdat, 1964, p. 653). The article describes briefly the magnet, the initial operation, the accelerating system, the electron injection, and some of the preliminary results. The authors thank V. S. Voronin, D. D. Krasil'nikov, A. N. Lebedev. O. A. Smirnov, V. M. Gapanovich, N. V. Platonov, G. T. Ponomarev, V. A. Ryabov, Ye.	
ORG: none TITLE: Starting of a new accelerator - symmetrical annular FM synchrotron of the Physics Institute im. P. N. Lebedev AN SSSR SOURCE: Atomnaya energiya, v. 20, no. 6, 1966, 513-514 TOPIC TAGS: electron accelerator, synchrotron/ KF electron accelerator ABSTRACT: This is a brief report of the starting of a new experimental symmetrical annular FM synchrotron (KF installation). It is a strong-focusing accelerator with constant magnetic field, in which the time variation of the magnetic field is replaced by a radial increase of the field in accordance with the growth of the particle energy. The accelerator was proposed by one of the authors (Kolomenskiy, ZhETF v. 35, 298, 1957; Atomnaya energiya v. 3, 492, 1957) and its construction is described in detail elsewhere (V. N. Kamunnikov et al., in: Trudy Mezhdunarodnoy konferentsii po uskoritelyam, Dubna, 1963 [Transactions of International Conference on Accelerators, Dubna, 1963] Atomizdat, 1964, p. 655). The article describes briefly the magnet, the initial operation, the accelerating system, the electron injection, and some of the preliminary results. The authors thank V. S. Voronin, D. D. Krasil'nikov, A. N. Lebedev, O. A. Smirnov, V. M. Gapanovich, N. V. Platonov, G. T. Ponomarev, V. A. Ryabov, Ye.	AUTHOR: Kolomenskiy, A. A.; Kamunnikov, V. N.; Kazanskiy, L. N.; Oychinnikov, Ye. P.; Papadichev, V. A.; Semenov, S. S.; Fateyev, A. P.; Yablokov, B. N.
SOURCE: Atomaya energiya, v. 20, no. 6, 1966, 513-514 TOPIC TAGS: electron accelerator, synchrotron/ KF electron accelerator ABSTRACT: This is a brief report of the starting of a new experimental symmetrical annular FM synchrotron (KF installation). It is a strong-focusing accelerator with constant magnetic field, in which the time variation of the magnetic field is replaced by a radial increase of the field in accordance with the growth of the particle energy. The accelerator was proposed by one of the authors (Kolomenskiy, Zhetf v. 33, 298, 1957; Atomnaya energiya v. 3, 492, 1957) and its construction is described in detail elsewhere (V. N. Kamunnikov et al., in: Trudy Mezhdunarodnoy konferentsii po uskoritelyam, Dubna, 1963 [Transactions of International Conference on Accelerators, Dubna, 1963] Atomizdat, 1964, p. 653). The article describes briefly the magnet, the initial operation, the accelerating system, the electron injection, and some of the preliminary results. The authors thank V. S. Voronin, D. D. Krasil'nikov, A. N. Lebedev, O. A. Smirnov, V. M. Gapanovich, N. V. Platonov, G. T. Ponomarev, V. A. Ryabov, Ye.	
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group for help with the starting of the accelerator, and Professor N. A. Dobrotin for interest in the work. Orig. art. has: 2 figures.								
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(MIRA 10:10)

(Great Britain--Radar in navigation)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000520420010-7"

Practical manual for the use of ship radar systems ("Practical manual on the use of ship radar systems for navigation and prevention of ship collisions in high seas" by M.N. Malaksianov and others. Reviewed by IU Kanunnikov). Mor.flot 21 no.2:46-47 [F *61. (Radar in navigation) (Malaksianov, M.N.)

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KSENZ, Stanislav Petrovich; KANUNNIKOV, Yuriy Fedorovich; MALAKSIANOV, Mikhail Nikolayevich; NIKOL'SKIY, Vsevolod Ivanovich; KHACHATUROV, Ye.A., tekhn. red.

[Avoiding breakdown in ship radar systems; repairing ship radar devices at sea] Ustranenie neispravnostei sudovykh radio-lokatorov; remont morskikh navigatsionnykh RLS v more. Moskva, sd-vo "Morskoi transport," 1962. 228 p. (MIRA 15:8) (Radar in navigation)

KSENZ, S., inzh.; KANUNNIKOV, Yu., shturman dal'nego plavaniya; BURKOV,
V., radiotekhnik

Emergency starting block for the radar station "Neptune." Mor.
flot 22 no.2:20-21 F '62. (MIRA 15:4)

(Radar in navigation)

KANUNNIKOV, Yu.F., kapitan 2-go ranga

The badge "For a Long-Distance Cruise." Mor. sbor. 48 no.6:67
Je '65.

(MIRA 18:6)

EWT(m)/EWP(v)/T/EWP(t)/ETI/EWP(k) L 36138-66 IJP(c) JD/HM ACC NR: AT6016764 (N) SOURCE CODE: UR/2776/65/000/042/0077/0084 AUTHOR: Aleksendrove, T. K.; Kanunnikova, A. M. ORG: none TITLE: Rolling of titanium-iron bimetal 27 SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 42, 1965. Proizvodstvo bimetallov (Production of bimetals), 77-84 TOPIC TAGS: metal cladding, bimetal, titanium, iron, hot rolling ABSTRACT: The object of this investigation was to obtain bimetal strips up to 0.1 mm thick on using armco iron and VT1-1 titanium. Comparative relling at normal and elevated temperatures was performed. The assembled and welded strips were hot-rolled in a two-high mill or cold-rolled in a strip mill, and annealed to increase their plasticity. These experiments demonstrated the possibility of the hot pack rolling of bimetal titanium-iron strip at temperatures of ~700°C contrary to the established opinion that the optimal temperatures of such rolling are 950-1000°C; the strength of adhesion between iron and Ti then remains adequate provided that: the gas content of Ti is confined to 0.068% 0, 0.0084% H, 0.044% N; the welded surfaces of Ti and iron are thoroughly cleaned with a brush just prior to their rolling; and iron is annealed at 600-650°C in order to meximally adjust its plasticity to that of titanium prior to rolling. Mechanical tests of the hot-rolled bimetal strip were satisfactory : Card 1/2

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THOR: Aleksandrova, T. K.; Balakina, I. A.; Kanunnikova, A. H. G: none TLE: New All-Union State Standard for hot-rolled corrosion-resistant laminated eel plate URCE: Moscow. Teentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. ownik trudov, no. 42, 1965. Proisvodstvo bimetallov (Production of bimetals), 127- PIC TAGS: Achronium steel, nickel steel, low alloy steel, bimetal, metal cladding, dustrial condition / Ehl8H10T steel, Kh18N9T steel, Kh17N13M2T steel, OKh13 steel, 16GS low alloy steel, 09G2S low alloy steel, 09G2 low alloy steel ISTRACT: Owing to the sharp expansion of the output of laminated stainless steel late beginning with 1960, it became necessary to establish a special GOST (All-Union stee Standard) for this plate. This new GOST (GOST 10885-64, issued in 1964) speciate Standard) for this plate. This new GOST (GOST 10885-64, issued in 1964) speciate the technical conditions and requirements for the fabrication of laminated steel late and sheets 4 to 160 mm thick, with the cladding layer being represented by the	5142-66 EWT(m)/EWP(w)/EWP(t)/ETI/EWP(k	t) IJP(c) JD/HW/WB/EM/JT
G: none TLE: New All-Union State Standard for hot-rolled corrosion-resistant laminated cell plate UNCE: Hoscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Ornik trudov, no. 42, 1965. Proisvodstvo bimetallov (Production of bimetals), 127- 2 3C/ENTIFIC STANDARO? PIC TAGS: Achromium steel, nickel steel, low alloy steel, bimetal, metal cladding, dustrial condition / KhishiOT steel, KhishiT steel, Khi7hi3h2T steel, OKhi3 steel, 16GS low alloy steel, 09G2S low alloy steel, 09G2 low alloy steel STRACT: Owing to the sharp expansion of the output of laminated stainless steel stee beginning with 1960, it became necessary to establish a special GOST (All-Union ate Standard) for this plate. This new GOST (GOST 10885-64, issued in 1964) speciate Standard) for this plate. This new GOST (GOST 10885-64, issued in 1964) speciate Standard conditions and requirements for the fabrication of laminated steel ate and sheets 4 to 160 mm thick, with the cladding layer being represented by the	C NR AT6016768 (N) SOURCE CO	ODE: UR/2776/65/000/042/0127/0132
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MRCE: Hoscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Fornik trudov, no. 42, 1965. Proisvodstvo bimetallov (Production of bimetals), 127- 12 SCIENTIFIC STANDARD; PIC TAGS: chromium steel, nickel steel, low alloy steel, bimetal, metal cladding, industrial condition / Kh18M10T steel, Kh18M9T steel, Kh17M13M2T steel, OKh13 steel, 16GS low alloy steel, 09G2S low alloy steel, 09G2 low alloy steel STRACT: Owing to the sharp expansion of the output of laminated stainless steel late beginning with 1960, it became necessary to establish a special GOST (All-Union tate Standard) for this plate. This new GOST (GOST 10885-64, issued in 1964) speciles the technical conditions and requirements for the fabrication of laminated steel late and sheets 4 to 160 mm thick, with the cladding layer being represented by the	•	11.4 mediatent leginated
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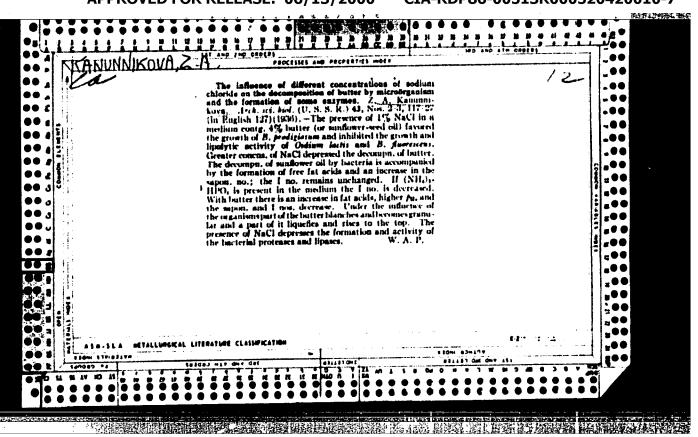
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KANUNNIKOVA, A. S.

"Matural Content of Zinc in Food Products." Sub 19 Nov 51, Second Moscow State Medical Inst imeni I. V. Stalin.

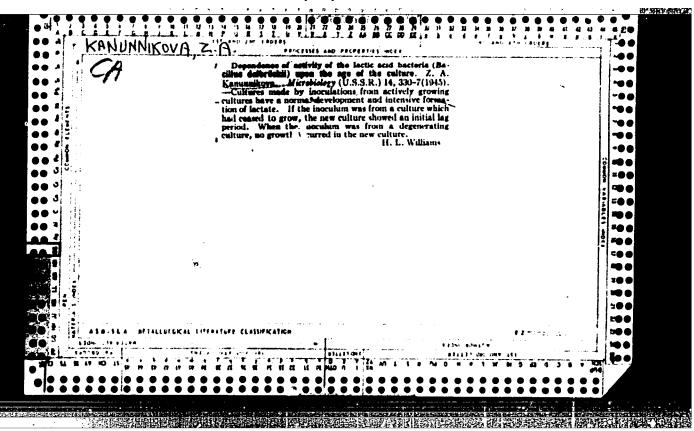
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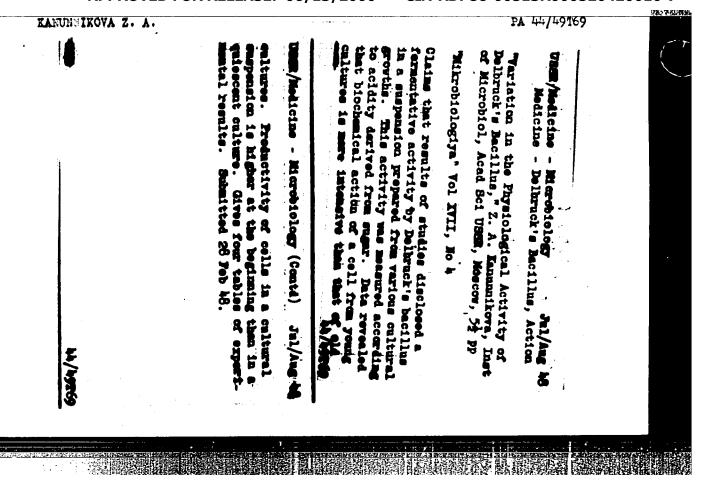
SO: Sum. No. 480. 9 May 55



KANUNIKOVA, Z. A. AND STURM, L. D.

"Distributionof microorganisms in freshwater Lacustrine deposits," Mikrobiologiya, 14, p 260, 1945.





USSR/Biology - Filterable Forms of Bacteria

FD-1412

Card 1/1

: Pub. 73 - 1/11

Author

: Kanunnikova, Z. A.

Title

: On filterable forms of lactic acid bacilli

Periodical

: Mikrobiologiya, 23, 6, 641-647, Nov-Dec 1954

Abstract

: The procedures used in, and results of experiments designed to isolate and culture filterable forms of Lactobacillus delbrueckii are described. The filterable forms obtained were oval shaped and grew well during a series of transplantations, but did not produce acid. The text is illustrated by two sketches, two graphs, and five electron photomicro-

graphs. Two Soviet references are cited.

Institution : Institute of Microbiology, Academy of Sciences USSR

Submitted

: 10 May 1954

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000520420010-7"

F Country : UBER Category : Microbiology, General Microbiology. Crowth and Anvalopment of the Microbial Population Aos. Jour : Ref Thur-Biol., No 25, 1958, No 103598 Author : Kamunat kova 2. A. : Kamumikova Z. A.
: — Institution of the Biological AN SSSR Moscow
: The Influence of Certain Environmental Factors on the Institut. Title Formation of Filtrable Forms of Lactic Acid Bacteria Orly Pub. : Mikrobiologiya, 1958, 27, No 2, 172-176 Abstract : After the action of prolonged shaking in a vibrator or of distilled water on two strains of Bast. delbraski T³ and 95, bodies of oval shape appeared in the oulture; these are called "microforme" by the author. Shaking contributes to an impresse in the number of microforms. Regeneration of the microforms in filtrates of the To strain was obtained in only one experiment, whereas it was obtained in all the filtrates during the examination of strain 95. Increase in the number of microforms in the filtrate leads to a more frequent formation of secondary cultures. The development of microforms, into the bacilloid forms was studied directly in a hanging drop. The author believes that Card: 1/1 **的**

Some characteristics in the formation of the flow of small rivers in the Paya-Bureya basin. Shor. trud. Khab. avt.-dor. inst. no.1: 59-68 '62.

SOV/120-59-4-31/50

AUTHORS: Kanunov, M. A. and Sokovishin, V. A.

TITIE: A Laboratory Vacuum Manipulator

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 4, pp 130-132 (USSR)

ABSTRACT: Apart from the essential parts, such as the vacuum-tight casing, electrodes, etc., vacuum devices usually have a glass or metal stem which is left behind when the device is sealed off. Inside the vacuum device there may be also ribbons, etc. used for deposition of a getter mirror. The present note describes methods of production of vacuum devices without some of these non-essential parts such as stems or ribbons for getter deposition. Vacuum is produced both inside and outside a device. The device is evacuated through wider openings than the usual glass or metal stem and this accelerates the evacuation process. The getter is deposited from an external source onto the hot (200-250°C) walls of the device. In this way only the getter mirror remains inside the device. The device is sealed off (in vacuo) by soldering two metal parts with an easily fusible alloy POS-61, which has a small temperature interval between softening and flow (183-193°C). If the metal parts are prevented from moving during the soldering process and Card 1/4

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A Laboratory Vacuum Manipulator

if the solder is in the form of a comparatively thin layer, the mechanical strength of the joint is very high. All these operations can be carried out in a vacuum manipulator snown schematically in Fig 2 (Fig 3 is a photograph of the manipulator). The manipulator is connected to an oildiffusion pump with an evacuation rate of 500 litre/sec. In order to improve vacuum in the manipulator a trap in the form of a copper rod with vanes was placed in a tube 2, which connects the manipulator and the pump. The copper rod projects outside and is cooled with liquid nitrogen. The manipulator chamber is a cylinder of 220 mm diameter (1, in Fig 2). The cylinder is closed by a welded bottom 3, and it has a steel disc, 4, across its middle portion. It is possible to move vacuum devices inside the manipulator vertically as well as in the horizontal plane along an arc of 120°. A disc, 11, is attached to the upper part of the central shaft 7 and clamps 12 for holding the vacuum device casings, are attached to the disc 11. Just

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A Laboratory Vacuum Manipulator

above the steel disc 4 there is a platform, This platform is used to support apparatus for heating of the devices and deposition of the getter. The heater is in the form of a vertical cylinder furnace with a nichrome winding and its temperature is controlled by means of a thermocouple. To ensure good contact between the casing of the vacuum device and its base during the soldering process, the base is placed on a little platform supported by a spring. To achieve exact alignment between the casing and the base a short rod 19 is used. This rod fits exactly into the holes in a special platform 18 and this fixes precisely the positions of the bases with respect to the casings. The metal parts of the casings and the bases are tinned with POS-61 solder and carefully washed. Then the casings and the bases are placed inside the manipulator, where they are heated and outgassed. After several hours of heating at 300-500°C the casings are removed from the vertical furnaces mentioned earlier. They are then moved along an arc and placed in the gettering positions. getter mirrors are deposited by passing a current of 9-10 A through boats containing the gettering substance. After the gettering stage the casings are lifted, moved along an arc

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SOV/120-59-4-31/50

A Laboratory Vacuum Manipulator

and placed again in the vertical furnaces. The rod 19 is used to align the bases with the casings. The casings and the bases are pressed against each other and soldered together at 240°C in a vacuum of (5-6) x 10-6 mm Hg. Acknowledgments are made to A. S. Matveyenko, A. I. Sazanov and N. I. Orlov for their help, and to V. A. Tsukerman for his advice. There are 3 figures and 3 Soviet references.

SUBMITTED: May 13, 1958.

Card 4/4

33151

S/120/61/000/006/019/041 E032/E114

9,2/40(1001,1150,1161) AUTHORS: Lobov. S.I.

. . .. 1

Lobov, S.I., and Kanunov, M.A.

TITLE: A controlled doubly triggered discharger

PERIODICAL: Pribory i tekhnika eksperimenta, no.6, 1961, 94-96

The device described by the present authors is suitable for use as a switch for high-current (kiloamperes) pulses. It is illustrated in Fig 1 (A - anode; K - cathode; 3 - insulating glass ring; M - screening cap). The main discharge gap between the electrodes A and K is separated by the intermediate electrode C which contains an axial aperture. The intensifying electrode [] is located inside the cathode and is insulated from it by a glass ring. The cathode carries a metal cap which prevents the disintegration of the glass. The cap also has an axial aperture. One can show, using the Paschen curve, that the breakdown potential between two electrodes is smaller than the breakdown potentials of the two halves of the same gap formed by the insertion of a third and infinitely thin electrode. In the present discharger the gaps AC and CK are connected Card 1/

33151 5/120/61/000/006/019/041 E032/E114

A controlled doubly triggered

through the aperture in the thin electrode C. If the potential between A and K is adjusted to be close to the breakdown potential be ween A and C (K and C) with the intermediate electrode C at the mean potential, then one obtains twice the normal electrical strength. In order to operate the discharger it is sufficient to initiate a discharge through one of the two gaps (CK or CA). The discharger is shown to combine the principles of a commutator with two gaps and a triggatron. In practice, the discharger has a working voltage of 1.5 kV. It has a length of 46 mm and a diameter of 15 mm. The delay time between the main discharge and the triggering pulse is less than 0.05 µsec. The discharger is designed for 2-3 usec current pulses up to 3 kiloamps. electrical strength between the anode and the cathode is not less than 3 kV. The breakdown voltage between M and K is about Fig. 3 illustrates possible methods of connection of the discharger. In Fig. 3a the triggering voltage pulse (positive) from the transformer Tp is applied to the electrode C through the blocking capacitor $Cp = 50-100 \ \mu\mu\text{F}$. At the same time the walkage makes in the same time the voltage pulse is applied through the load Z to the electrode . Card 2/1

A controlled doubly triggered ... \$\frac{33151}{5/120/61/000/006/019/041}\$
The load \$\tau\$

The load Z can be either a capacitance, an inductance or a resistance. In the other circuit (Fig. 36) the load Z is removed and the electrode | receives the negative voltage pulse from the other end of the transformer coil. Both circuits ensure that the gap $\prod K$ breaks down first. This breakdown serves as a source of charged particles which are necessary to prevent a delay between the breakdown of CK and AC, and also as a starting pulse for the electrode C whose potential may increase independently of the stage of the gap \(\Pi\K.\) these conditions, the discharge across CK occurs at a voltage approximately equal to the static discharge voltage. electrical discharge across CK occurs from the edge of the aperture in the electrode C. When this happens the electrode C is found to be at the same potential as the cathode, and the working voltage appears across AC whose breakdown potential is arranged to be close to the working voltage. It follows that as soon as CK sparks over, AC will also discharge. result, there is a common discharge channel between A and K through the aperture in C and the discharger fires. Card 3/8 /

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33151 5/120/61/000/006/019/041

A controlled doubly triggered ... Acknowledgments are expressed to V.A. Tsukerman, P.M. Tochilovskiy and N.I. Orlov for assistance during this work and in the preparation of prototype dischargers. There are 3 figures and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc. The English language reference reads as follows;

Ref. 1; F.S. Coucher, J.R. Hoynes, W.A. Depp, E.J. Rider. Bell System Techn. J., v.25, October 1946. SUBMITTED: April 3, 1961

Card 4/4 4

A great force. Transp. stroi. 13 no.3:1-3 Mr '63.

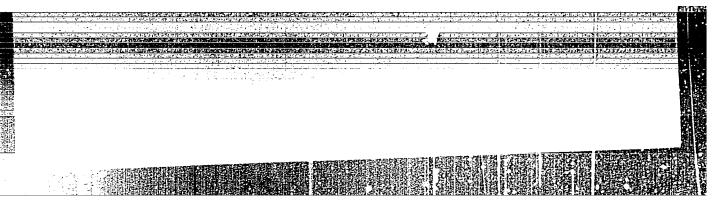
(MTRA 16:4)

1. Sekretar' TSentral'nogo komiteta professional'nogo soyusa rabochikh shelssnedoreshnego transporta.

(Women in construction)

KANUPER, V. (Riga) Highly sensitive video receivers. Radio no.3:28-30 Mr 162. (MIRA 15:3) (Television-Receivers and reception)

	TAP6030999)	SOURCE CODE: BU/0015/66/027/001/0115/0116	,
	V -manlana		177	
JIHORI ,	Kanurkov		'A	
iG: Ma	in Center	for Geologi	ical Studies (Glavno upravl. za geol. prouchvaniya)	
TLE:	Is the ext	istence of g	goethite and lepidocrocite in Bulgaria proved?	
URCE:	Bulgarsk	o geologiche	esko druzhestvo. Spisanie, v. 27, no. 1, 1966, 115-116	
PIC TA	GS: miner	ralogy, phys	sical geology	
			note surveys statements concerning the	
cistono	be of goet	hite and lep	pidocrocite in Bulgaria and concludes that most	
f the p	positive p	ronouncesent	te are not well founded since they are based	}
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hrough nyestig UB: CODE	a combined ation of t	the samples.	ion. He proposes that the question be decided ermographic, microscopic, and chemical . [JPRS: 36,844] none / CRIG REF: 013 / SOV REF: 007	•



KAPUSTINSKIY, A.F.

Category : USFR/Atoric and Molecular Physics - Physics of the

Abs Jour : Ref Zhur - Fizike, No 3, 1957, No 6217

: Kenustinskiy, f.F.

: Dissociation Energy of Fluorine Molecules and the Rule of Title

Thermochemical Logerithmics.

Orig Fub : Tr. Mosk. Khim.-tokhnol. in-ts, 1956, Vyp. 22, 17-20

Abstract : The author obtains the dissociation energy D of F2 (the experimental determination of which is difficult) by tracing the variation of D over the elements that comprise its group in the periodic system. The value obtained for D, 71 Kcel/mol (at 298° K), is close to the value obtained by Birge (see Britske E.V. et al, Thermoconstants, Published by Acedemy of

Sciences, USSR, 1949).

: 1/1 Card

POLAND / Chemical Technology. Chemical Products and Their

I-30

Application. Food Industry.

Abs Jour

: Ref Zhur - Khimiya, No 3, 1957, 10330

Author Inst

KANUT, I,

: Kanut, T. : Not given

Title

: The Thiamine and Riboflavin Content of Raw and Boiled Milk.

Orig Pub

: Roczn. nauk rolniczych, 1955, Vol B-70, No 2, 197-205

Abstract

Raw milk contains 0.038-0145 mg/s of thiamine (average 0.0417 mg/s) and 0.169-0.206 mg/s (average 0.192 mg/s) of free riboflavin. In boiled milk, the average content of these two substances is 0.0386 and 0.187 mg/s, respectively. The boiling of milk results in the destruction of 7.43% of the

thiamine and 2.6% of the riboflavin.

Card

: 1/1

KRAUSE, Micosyslaw, doc. dr.; VORERODT, Andreej, doc. dr.; KANWISZER.

Attempt of histochemical localization of catecholamines in the metencephalen. Acta physicl. Pol. 16 no.1t1-7 Ja-F*65.

l. Zaklad Fisjologii (Kierownik: doc. dr. M. Krause); Zaklad Histologii i Embriologii Ogolnej (Kierownik: doc. dr. A. Vorbrodt) eraz Zaklad Anatomii Pravidlowej Slaskiej Akademii Hedycznej w Zabrzu-Rokitnicy (Kierownik: prof. dr. St. Kohmann).

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000520420010-7"

HARAZDA, Maria; KANWISZER, Henryka; LANGER, Jan; RZEPECKI, Wit.

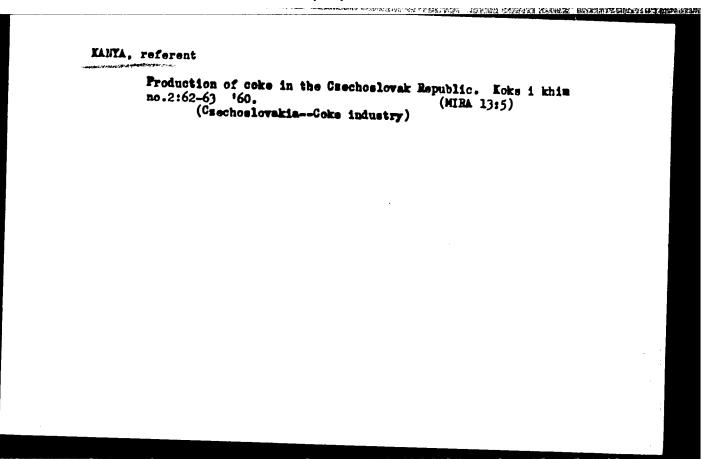
Intraoperative hemovrhage in a case of pulmonary sequestration. Gruslica 33 no.9:817-820 8 * 65.

1. Z Kliniki Chirargii Klatki Piersiowej Studium Doskonalenia Lekarsy w Zakopanem (Kierownik: prof. dr. med. W. Rzepecki)

KANWISZER, Hemryka; FRENKEL, Stanislaw

Can ethionemide be used in reduced doses? Gruslica 33 no.3: 231-234 Mr.65.

1. Z Kliniki Chirurgii Klatki Piersiowej SDL [Studium Dos-konalenia Lekarsy] w Zakopanem (Kierownik: prof. dr. med. W. Paspeeki).



YANYA, E.

THE PROBLEM OF LABOR PRODUCTIVITY IN REGARD TO RAILROADS.

p 12 (KPZLEKEDESTUDOMANYI SZEMLE) BUDAPEST, HUNGARY VOL. 7 NO 1/3 JAK./MAR. 1957

SO: MONTHLY INDEX OF EAST EUROPEAN ACESSIONS (AEEI) VOL 6 NO 11 NOVEMBER 1957

KANYA, E.

Calculation of profitableness in the complex development of transportation branches. p. 501.

KOZLEKEDESTUDOMANYI SZEMLE. Budapest, Hungary. Vol. 9, no. 11, Nov. 1959.

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Long-distance heat supply of Tatabanya. Epuletgepeszet 12 no.6:204-210 D.63.

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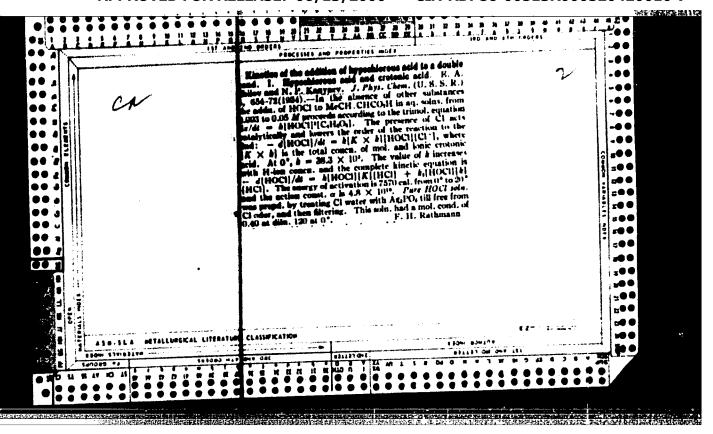
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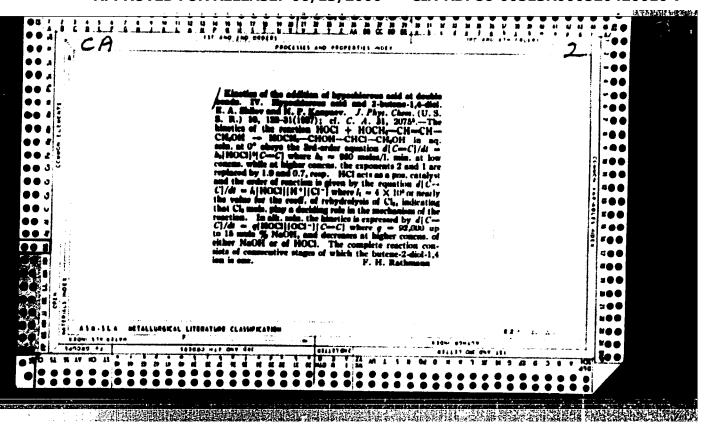
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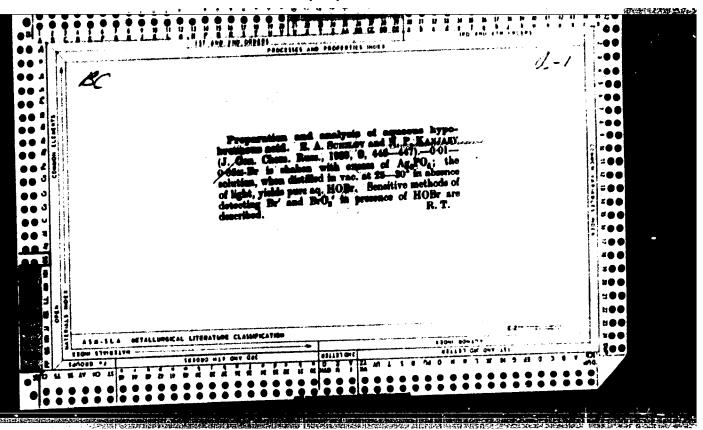
- 1. KAN'YANOV, N. H.
- 2. USSR (600)
- 4. Medical Instruments and Apparatus
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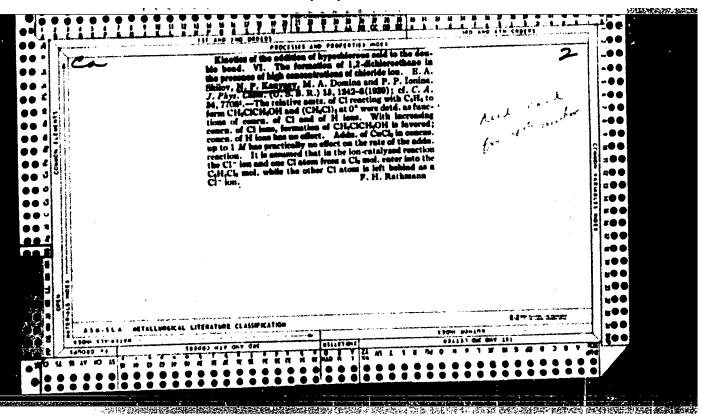
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

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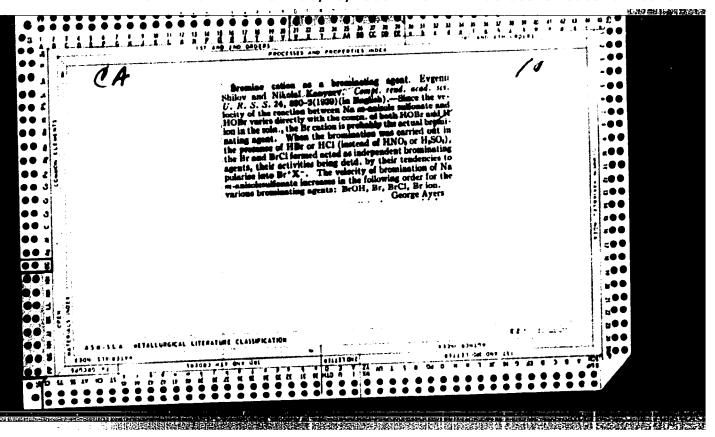
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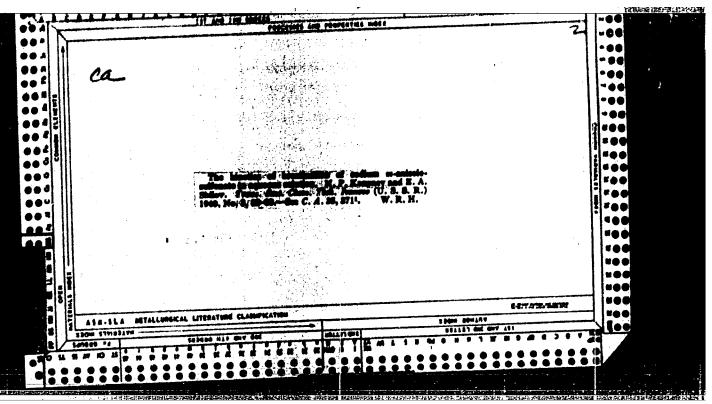
- 1. SHILOV, Ye. A.; KANYAYEV, N. P.
- 2. USSR (600)

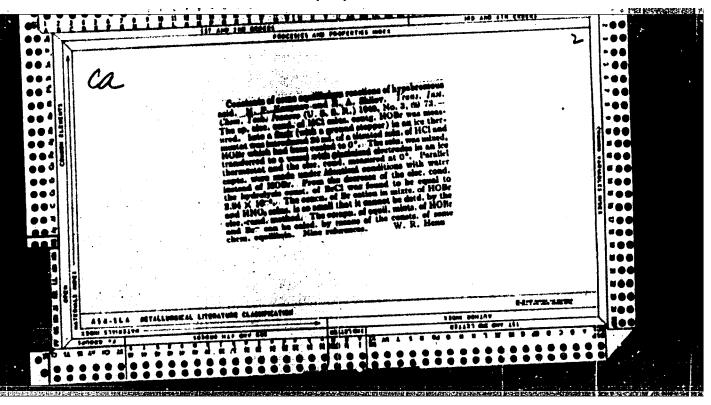
"The Kinetics of the Addition of Hypochlorous Acid by Double Bonds" Part VI.
"The Reaction of the Formation of 1, 2-Dichloroethane under Increased Concentrations of the Chlorine Ion," Zhur. Fiz. Khim, 13, No. 9, 1939. Ivanovo, Chemical-Technological Institute, Laboratory of Organic Chemistry. Received 13 March 1939.

9. Report U-1615, 3 Jan. 1952.

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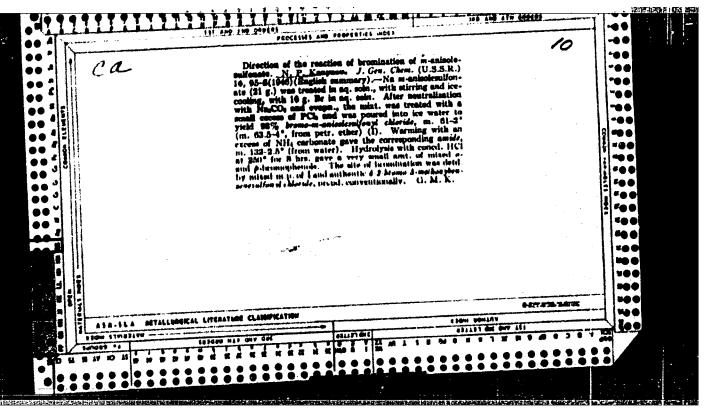


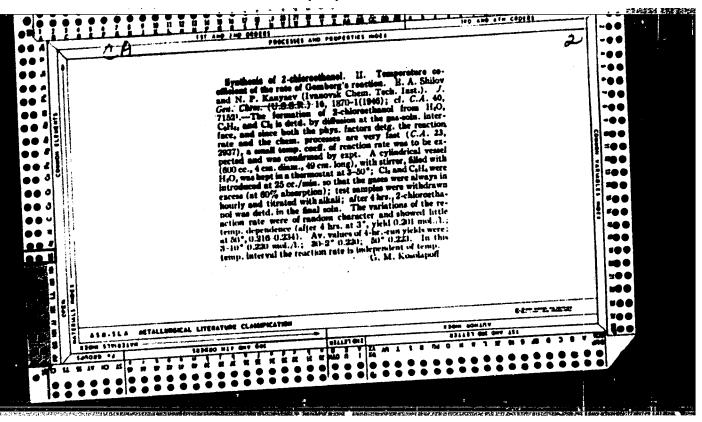
KANIAEV, N. P.

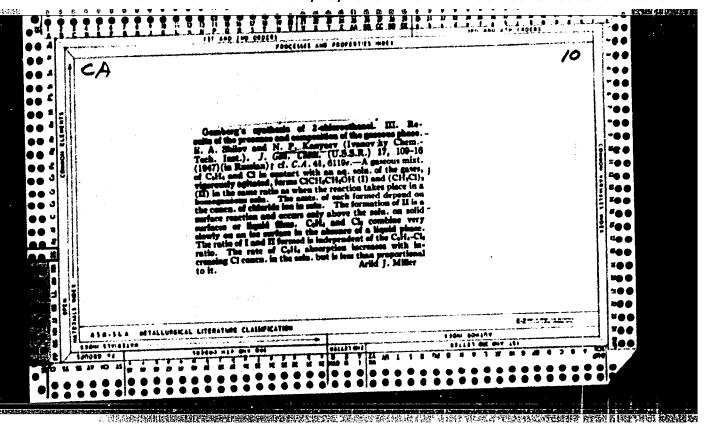
"Investigations on the Synthesis of 2-Chlorethanole. I. On the Pseudocatalytic Action of Copper Salts by the preparation of 2-Chlorethanole." Shilov, E. A., Kaniaev, N. P. and Solodushenkov, S. M. (p. 791)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1945, Volume 15, no. 9-10.

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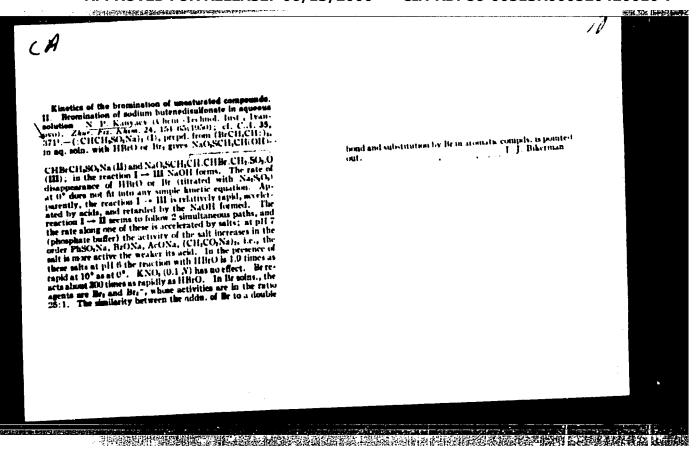
KANŽAEV, N. P.

Shilov, E. A., and <u>Kenisev. N. P</u>. "The Studies on Gomberg's Synthesis of 2-Chloroethanol. III. On the Results of the Presence and Composition of Gaseous Phase." (p. 116)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1947, Vol. 17, No. 1

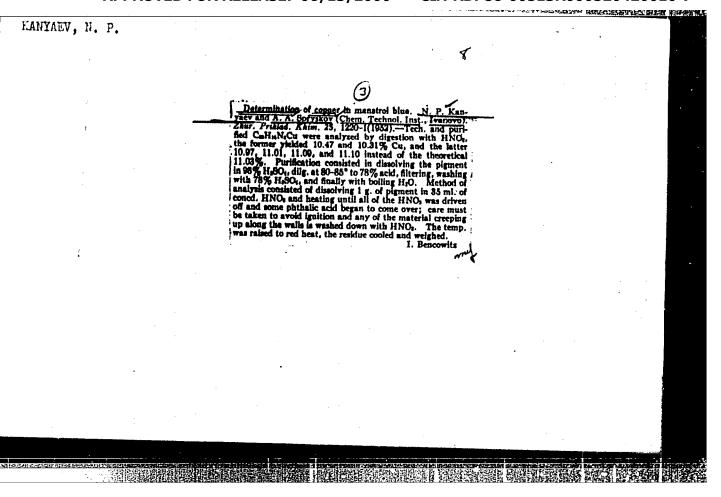
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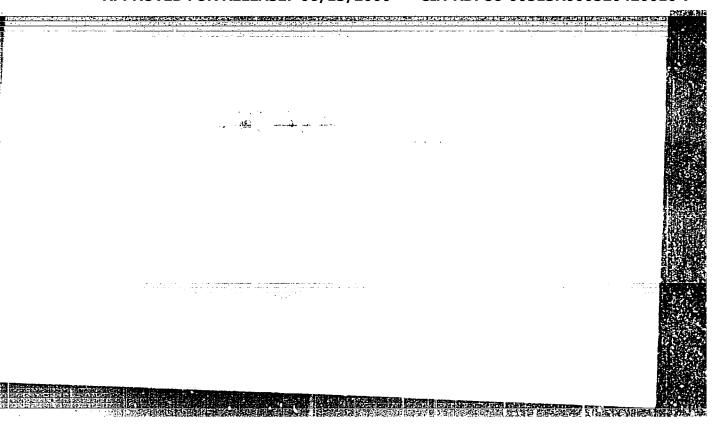
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KANYAYEV, N. P.

Bromination of Unsaturated Compounds. 111. Reaction of Addition of Hypobronous Acid to Allyl Trimethyl Ammonium Perchlorate, page 1173, Sbornik Statey po obshchey khimii (Collection of Papers on General Chemistry), Vol II, Moscow-Leningrad, 1953, pages 1680-1686.

Ivanovo Chemico-Technological Inst

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THE PROPERTY OF THE PROPERTY O - MNYHYEV , 1V. P USSR/Organic Chemistry. Theoretical and General Questions of Organic Chemistry. E-1 Abs Jour : Ref Zhur - Khimiya, No. 8, 1957, 26642. Author Kanyayev, N.P. Inst Title Bromation of Unsaturated Compounds. V. Reaction of Addition of Bromine to Allyltrimethylammonium Perchlorate. Orig Pub Zh. obshch. khimii, 1956, 26, No. 10, 2726 -Abstract In order to develop the foregoing work of investigating the kinetics of addition of HOBr to allyltrimethylammonium perchlorate (I), the kinetics of the addition of Br2 to I in aqueous solution at 0 and 200 and the influence of added salts on the yield of the bromoxyderivative (II) were studied. The Card 1/3 Ivanous Chem Jech Inst

Kanyayev, N. P.

PRINCIPAL PROPERTY IN COMMISSION OF

SOV/79-29-3-19/E1

ITLE:

Bromination of Unsaturated Compounds (Bromirovaniya nepredel!nykh sovedinemiy). VII. Kinetics and Nechanism of Bromine Addition to the Double Bond in the Presence of Bromides (VII. Kinetika i mekhanizm prisoyedineniya broma po dvoynoy svyazi v prisutstvii bromidov)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 3, pp 841-845 (USSR)

ABSTRACT:

The investigation of the kinetics of the addition reaction of bromine to the double bond in aqueous solution meets with difficulties because on this transformation two products are formed, bromohydrin and the dibromine derivative. The formation of bromohydrin is accompanied by the development of hydrogen bromide which is taking part in the course of the process and changes the reaction rate and the quantitative ratio of the above-mentioned two products. It is known from the data available in publications that the hydrogen bromide acts as strong catalyst in reactions with unsaturated compounds taking place in CHCl3 and CCl4-solutions (Ref 1). In most cases hydrogen bromide and the bromides accelerate the affiliation of bromine in acetic acid (Ref 2) to the double bond. In water and methanol, however,

Card 1/3

arated Compounds. VII. Kinetics and Mechanism of Bromine to the Double Bond in the Presence of Bromides

a retarding of the reaction was observed to the publication of the reaction was observed to the publication of the bromides, concepts regarding this problem Tone dealt with (Refs 5-7). The concepts regarding this problem were varied. With a decrease in the reactivity of the double bond the part the bromide ion plays as reactant increases. The quantitative ratio between bromohydrin and dibromide in the reaction products depends not only on the concentration of the bromide ion in the solution but also on the reactivity of the unsaturated compound. The less the reactivity is, the higher the formation of dibromide. Some possible reaction mechanisms are discussed. In the experimental part of this report the investigation results regarding the affiliation reaction of bromine in the presence of bromide in aqueous solution are given in detail. There are

ASSOCIATION:

1 figure, 3 tables, and 10 references, 3 of which are Soviet. Ivanovskiy khimiko-tekhnologicheskiy institut (Ivanovo Institute of Chemical Technology)

Card 2/3

THE PROPERTY OF THE PROPERTY O

Bromination of Unsaturated Compounds. VII. Kinetics and Mechanism of Bromine Affiliation to the Double Bond in the Presence of Bromides

SUBMITTED:

January 6, 1958

Card 3/3

CONTRACTOR OF THE PROPERTY OF

S/153/60/003/004/020/040/XX B020/B054

AUTHOR:

Kanyayev N. P.

TITLE:

Bromination of Unsaturated Compounds. VIII. Kinetics and Mechanism of Bromine Addition to Croton Aldehyde in

Aqueous Solution

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol. 3, No. 4,

pp. 663 - 668

TEXT: To obtain further, not yet published data, the author studied the kinetics of bromination of croton aldehyde (CA) in aqueous solution, bromine and hypobromous acid being used as brominating agents. Kinetics and reaction mechanism with bromine are dealt with in the present paper. The yield in dibromo butyric acid aldehyde in the reaction of bromine with CA in aqueous solution, which delivers α -bromo- β -oxy-butyric acid aldehyde as principal product, is very low, even at rather high bromine concentrations: only 2% of dibromide is obtained on addition of 0.2 moles/1 of NaBr to the solution. In mixtures of bromine water and

Card 1/3

Bromination of Unsaturated Compounds. S/153/60/003/004/020/040/XX VIII. Kinetics and Mechanism of Bromine B020/B054 Addition to Croton Aldehyde in Aqueous Solution

CA, the reaction rate is illustrated by curves, which are characteristic of an autocatalytic reaction (Fig.1). Experimental results show that the CA concentration enters the kinetic equation with the factor 1, and the bromine concentration with a factor near zero. This conclusion can be drawn from experiments with HaBr and HBr, the results of which are summarized Data in the table show that $k_1/[H^+]$ remains fairly constant on a change of the bromine concentration to the 2-, and of the hydrogen ion concentration to more than the 20-icld. It may be assumed to the equation - d[Br₂]/dt = k[CA][H^+] + k₂[CA][Br₂], where k = 97 and k₂ = 6.86 at 0°C (Table 2). The course with respect to time of the reaction rate with small initial amounts of acid (Fig.2), and with the use of HBr and HNO₃ (Fig.3), is indicated. The activation of CA is caused by addition of a proton to the oxygen of the carbonyl group, which much increases the positive charge of the β -carbon atom. Water and, later, bromine are added as nucleophilic agents to this positive

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KANYAYEV, N.P.

Kinetics of the addition of hypobromous acid to crotonaldehyde in an aqueous solution. Izv.vys.ucheb.zav.; khim.i khim.tekh. 4 no.l: 78-83 '61. (MIRA 14:6)

1. Ivanovskiy khimiko-tekhnologicheskiy institut, kafedra organicheskoy khimii.

(Hypobromous acid) (Crotonaldehyde)

KANYAYEV, N.P.

Bromination of unsaturated compounds. Part 5: Kinetics and mechanism of the bromination of the ethylenesulfonate ion by hypobromous acid. Izv. vys. ucheb. zav.; khim. i khim. tekh. 4 no. 2:225-228 '61. (MIRA 14:5)

1. Ivanovskiy khimiko-tekhnologicheskiy institut. Kafedra organicheskoy khimii.

(Ethylenesulfonic acid) (Hypobromous acid)

(Bromination)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000520420010-7"

KANYAYEV, N.P.

Bromination of unsaturated compounds. Part II: Kinetics and mechanism of the bromination of ethylenesulfonate ion with bromine water. Izv.vys.ucheb.zav; khim.i khim.tekh. 4 no.5: 781-786 '61. (MIRA 14:11)

1. Ivanovskiy khimiko-tekhnologicheskiy institut, kafedra organicheskoy khimii.

(Ethenesulfonic acid)
(Bromination)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000520420010-7"

KANYEVSKIY, YE. A.

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WEER/Chemistry - Lithium Compounds Fluorine Compounds

Sep 51

"Energy of the Hydration of Ions. II. Calculation of Sums of Standard Energies of the Hydration of Ion Pairs," Ye. A. Kanyevskiy, Moscow

"Zhur Fis Khim" Vol XXV, No 9, pp 1092-1097

Derived eqs on the basis of which the sums of std free energies of hydration of ion pairs (anion and cation) can be calcd. Calcd sums of std energies of hydration for 20 pairs of ions consisting of ions Li⁺, He⁺, K⁺, He⁺, Cs⁺, F-, Cl⁻, Br⁻, I⁻.

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KAGAN, V.Z., kand.ekonomicheskikh nauk; KABYCHKINA, K.T., mladehiy nauchnyy setrudnik

Most important work in the field of the economics and planning of the starch industry. Trudy TSBIRFP no. 3:233-245 *59.

(Starch industry)

(Starch industry)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000520420010-7"

KANYGIN, A.V.

New Lower Ordovician Ostracoda Cherskiella and Maraphonia in the northeastern U.S.S.R. Paleont. zhur. no.1:73-83 165. (MIRA 18:4)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.