S/024/59/000/06/020/028
E081/E241

AUTHORS: Baranov, G. G., Kochenov, M. I., and Fil'kin, V. P. (Moscow)

TITLE: Investigation of the Accuracy of the Automatic Grinding Process

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1959, Nr 6, pp 162-171 (USSR)

ABSTRACT: Presented at the III All-Union Joint Conference on Automation of Production Processes in Engineering and the Automation of Electric Drive in Industry.
A historical review is given of work on automatic grinding in the Soviet Union. An experimental investigation is then described into the automatic centreless grinding of the external ring of a bearing of diameter 135 mm using the machine 01822. Eq (1) is a relation established between the deviations in the sizes before and after grinding; Δd_k is the limiting deviation of the ring after grinding from the mean of the group, Δd is the limiting deviation before grinding, and the mean value of the product kc was established experimentally as 2. With $\Delta d = \pm 30$ microns, Eq (1) gives $\Delta d_k = \pm 10$ microns.

Card 1/4

S/024/59/000/06/020/028
E081/E241

Investigation of the Accuracy of the Automatic Grinding Process

In the experiments eleven groups of 500 rings were produced and in each group 40 rings at the beginning and 40 groups at the end were rejected. Each group consisted initially either of rings of a single diameter ($\pm$ 5μ) or of rings of two slightly different diameters (each $\pm$ 5μ). After grinding, the maximum and minimum diameters of each ring were measured. For all groups the distribution of the deviations Δd_o (maximum and minimum combined) and Δd_ϕ (difference between maximum and minimum) were found. If Δd_c is the deviation of the mean diameter, Δd_o includes Δd_c and the "form" error Δd_ϕ. The results are summarised in the Table (p 166); σ is the mean square deviation of the quantity defined by the suffix, t the range of scatter (see Fig 2), and Δ_k the systematic change of size of the rings during the time of working of each group. Fig 1 shows part of the results for maximum and minimum diameter of the processed rings of Group III, and Fig 2 shows the distribution curves (a) of size and (b) of errors of shape. Curve 1 is empirical, curve 2(a) is a Gaussian distribution and curve 2(b) a

Card 2/4

S/024/59/000/06/020/028
E081/E241

Investigation of the Accuracy of the Automatic Grinding Process

Maxwell distribution. Fig 4 shows the dependence of Δ_k σ_o, σ_c and σ_ϕ on the number of rings in the step. [This figure refers to groups I, II and III in which the initial diameter of the rings had two values differing by 50μ. In group I the large diameters (d = 135.100 mm) and small diameters (d = 135.050) alternated in ones. In group II the large and small rings were distributed in lots of 7 rings, and in group III the lots contained 21 rings.] Fig 5 shows the dependence of Δ_k, σ_o, σ_c and σ_ϕ on the step height. Δ_k is about 9 to 10 μ for step heights 25, 50, 75 μ, and for h = 0 it is 23μ. This cannot be explained in terms of the increase in the mean surplus (pripusk) Πp_c from 88 to 100μ (groups V and IV, table p 166). Fig 6 shows that the size of the removed surplus has only a small effect on σ_o and σ_c, but appreciably influences the value of σ_ϕ. The change in Δ_k in Fig 6 also suggests that the size of the removed surplus also influences the wear and blunting of the grinding circle. Fig 6 refers to stepped lots of rings; Fig 7 is similar, but refers to rings of uniform size. The rings in Group XI were selected at random from the

Card 3/4

25 (1, 5), 28 (1)

06174
SOV/115-59-11-2/36

AUTHOR: Kochenov, M.I.

TITLE: Some Problems in the Accuracy of Automatic Dimension Checking

PERIODICAL: Izmeritel'naya tekhnika, 1959, Nr 11, pp 3-13

ABSTRACT: The author reviews some problems in the accuracy of automatic sorting of parts. A note from the editor says that not all problems were covered in this article. The author investigates the influence of measuring errors on the results of sorting parts, the selection of the optimum test accuracy and the reduction of the work volume connected with a necessary rechecking of parts which were rejected by the sorting machine because of false signals. It is impossible to avoid that a certain number of serviceable parts is classified as unserviceable by the automatic sorting machine. These parts may be either rechecked manually, or are processed once more thru the automatic sorting machine. However, a repeated processing of parts thru the sorting machine is not advantage-

Card 1/2

06174
SOV/115-59-11-2/36

Some Problems in the Accuracy of Automatic Dimension Checking

ous from the viewpoint of mass production. The rechecking could be speeded up by indicating on the part according to which parameter (or parameters) it had been rejected. Further, the author discusses errors in the tuning of the automatic sorting machines, the application of multiple measurements and temperature errors of measurements. V.S. Chaman [Ref 2] from the Byuro vzaimozamenyayemosti (Bureau of Interchangeability) suggested a version for eliminating the temperature measuring errors according to which an automatic error correction is made. The temperature deviation of the part to be measured in respect to the temperature of the measuring machine is checked prior to the measurement. Laboratory tests produced good results. It is planned to use this method on an automatic line for processing RR car axles according to S.S. Podlazov, M.I. Kochenov, Ye.M. Goloul'nikov and I.N. Khaskin [Ref 3]. There are 1 diagram, 9 graphs, 4 tables and 3 Soviet references

Card 2/2

ERVAYS, Arkadiy Vladimirovich; KOCHENOV, M.I., kand.tekhn.nauk, retsenzent; SMIRNOVA, O.V., tekhn.red.

[Adjustment and repair of measuring instruments] IUstirovka i remont izmeritel'nykh mashin. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 106 p. (MIRA 13:6)
(Measuring instruments--Maintenance and repair)

BERKLAYD, I.M.; KUHOCHKIN, A.P.; LYAKHOVSKIY, A.V.; SMETKOV, A.M.; CHUDOV, V.A.; BAYBUROV, B.S., red.; KOCHENOV, M.I., red.; MALYY, D.D., red.; BESPAKHOTNAYA, T.P., nauchnyy red.; ZELISHEVA, M.S., red. izd-va; TIKHANOV, A.Ya., tekhn.red.

[Transducers and measuring gages] Datchiki i izmeritel'nye golovki. Pod red. B.S.Baiburova, M.I.Kochenova, D.D.Malogo. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 158 p.

(Transducers) (Gages) (MIRA 14:1)

GIPP, B.A.; GONIKBERG, Yu.M.; KAPLUN, M.M.; LEVENSON, Ye.M.; MANKOV, N.N.; POLYANSKIY, P.M.; SHLEZINGER, G.S.; LEVENSON, Ye.M., nauchnyy red.; BAYBUROV, B.S., red.; KOCHENOV, M.I., red.; MALYY, D.D., red.; PROKOF'YEVA, L.G., red.izd-va; TIKHANOV, A.Ya., tekhn.red.

[Checking devices] Kontrol'nye prisposobleniia. Pod red. B.S. Baiburova, M.I.Kochenova i D.D.Malogo. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1960. 338 p.

(MIRA 13:12)

(Measuring instruments)

VYSOTSKIY, A.V.; DVORETSKIY, Ye.R.; KONDASHEVSKIY, V.V.; KUZ'MICHEV, V.T.; MOROZOV, I.K.; POLYANSKIY, P.M.; TUBENSHLYAK, Z.L.; KHOKHLOVA, G.V.; CHASOVNIKOV, G.V.; SHLEYFER, M.L.; BAYBUROV, B.S., red.; KOCHENOV, M.I., red.; MALYY, D.D., red.; AKIMOVA, A.G., red. izd-va; KL'YKOV, V.D., tekhn. red.

[Instruments and devices for operating dimension control in the manufacture of machinery] Pribory i ustroistva dlia aktivnogo kontrolia razmerov v mashinostroenii. By A.V.Vysotskii i dr. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 303 p. (MIRA 14:9)

(Machinery industry—Equipment and supplies)
(Automatic control)

KOCHENOV, M.I.; CHAMAN, V.S.

Inductive meter equipped with a computer. Izm.tekh. no.11:12-17 N '61. (MIRA 14:11)

(Electronic instruments)

BALAKSHIN, O.B., kand. tekhn. nauk; BYKHOVSKIY, M.L., prof., doktor tekhn. nauk; VOLODIN, Ye.I., kand. tekhn. nauk; GRIGOR'YEV, I.A., kand. tekhn.nauk; DRAUDIN-KRYLENKO, A.T., inzh.; IVANOV, A.G., kand. tekhn.nauk; KOZLOV, M.P., kand. tekhn. nauk; KOROTKOV, V.P., prof.; KOCHENOV, M.I., kand. tekhn.nauk; KUTAY, A.K., kand. tekhn. nauk; [illegible] N.N., kand. tekhn. nauk; PALEY, M.A., inzh.; RAYZMAN, N.S., kand. tekhn.nauk; ROSTOVYKH, A.Ya., kand. tekn. nauk; RUMYANTSEV, A.V., kand. tekhn.nauk; SAMKIN, I.G., prof.; SMIRNOV, A.S., inzh.; TAYTS, B.A., prof., doktor tekhn. nauk; YAKUSHEV, A.I., prof., doktor tekhn. nauk; NESTEROV, V.D., inzh., nauchnyy red.; CHUDOV, V.A., inzh., nauchnyy red.; GAVRILOV, A.N., doktor tekhn.nauk, prof., red.; BLAGOSKLONOVA, N.Yu., inzh., red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Manufacture of instruments and means of automatic control; a manual in five volumes] Priborostroenie i sredstva avtomatiki; spravochnik v piati tomakh. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry. Vol.1.[Interchangeability and engineering measurements] Vzaimozameniaemost' i tekhnicheskie izmereniia. 1963. 568 p. (MIRA 16:8)
(Electronic measurements) (Automatic control)

IVANOV, A.G.; [illegible], G.D., doktor tekhn. nauk, prof.; VOLKOV, S.S.; KOROTKOV, V.P.; [illegible], Ye.I.; [illegible], A.Y.; RYMAR', N.F.; TAYTS, B.A., doktor tekhn. nauk, prof.; KOCHENOV, P.I., kand. tekhn. nauk, retsenzent

[Measuring instruments used in the manufacture of machinery] Izmeritel'nye pribory v mashinostroenii. Moskva, Mashinostroenie, 1964. 523 p. (MIRA 18:1)

KOCHENOV, M.I.; CHAMSH, V...

High-production automatic unit for checking and sorting piston pins. Stan.i instr. 35 no.8:15-18 Ag '64.

(MIRA 17:10)

KOCHENOV, M.I.; CHAMAN, V.S.

Automatic device for repeated measurements of linear dimensions.
Izm. tekh. no.12:7-10 D '64. (MIRA 18:4)

SHLEYFER, M.L.; ABRAMZON, E.L.; GLIKIN, A.S.; GOLOUL'NIKOV, Ye.M.; KAMKHIN, Ya.B.; KRUTIK, Ya.B.; KHASKIN, I.N.; KOCHERKOV, M.I., kand. tekhn. nauk; PODLAZOV, S.S., inzh. red.; SOLOVOV, V.N., inzh. red.; VEDMIDSKIY, I.M., kand. tekhn. nauk, dots.

[Control and measurement automatic machines and instruments for automatic lines]. Kontrol'no-izmeritel'nye avtomaty i pribory dlia avtomaticheskikh linii. Moskva, Mashinostroenie, 1965. 371 p. (MIRA 18:8)

ACC NR: AM5027778 Monograph UR/

Kochenov, M. I.; Abramzon, E. I.; Glikin, A. S.; Goloul'nikov, Ye. M.; Kamkhin, YA. B.; Khaskin, I. N.; Shleyfer, M. L.

Control and measuring automata and devices for automatic lines (Kontrol'no-izmeritel'nyye avtomaty i pribory dlya avtomaticheskikh liniy) Moscow, Izd-vo "Mashinostroyeniye", 65. 0371 p. illus. 7,600 copies printed.

TOPIC TAGS: automatic control design, automatic control equipment, electric measuring instrument, error measurement

PURPOSE AND COVERAGE: This book deals with constructions and electrical schemes of automata and devices as planned by the Main Design Office (GKB) of the State Committee of Machine Building of Gosplan, U.S.S.R. Based on a survey of various control and measuring apparatus, recommendations are made for selection of a scheme of measuring and constructing automata and devices, and for an analysis of admissible boudaries of errors in measuring by automatic control. Principles methods of testing the precision of control automata are given. This book is recommended for technical engineers planning and using control and measuring facilities in machine building. It can also be useful to higher technical school students.

TABLE OF CONTENTS (abridged):

Ch. I. Automata for final control and sorting of parts --5

Card 1/2

UDC: 620.I-52:681.2:621.90.002.5(022)

ACC NR. AM5027778

SUB CODE: 13 / SUBM DATE: 06May65/

Card 2/2

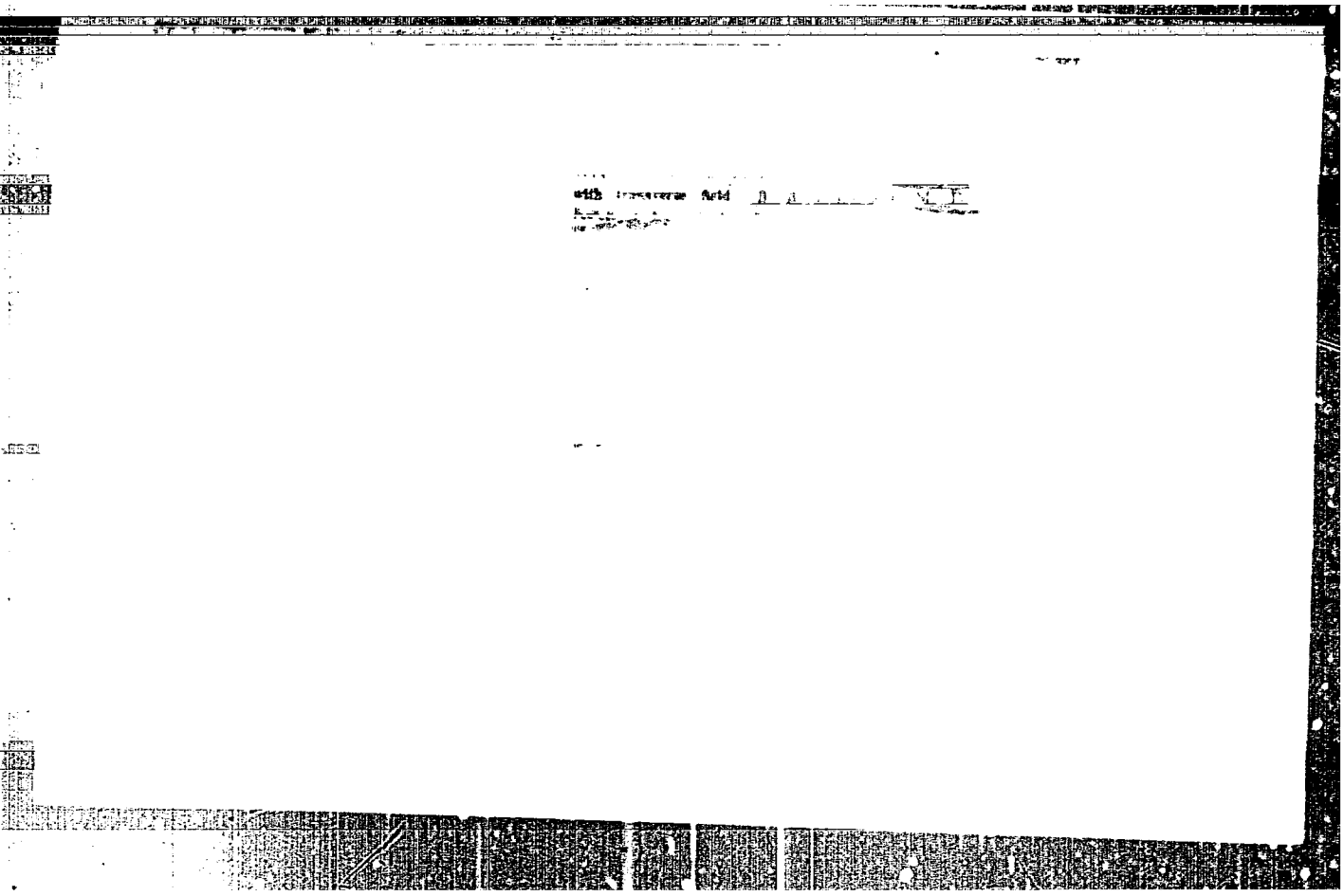
KOCHENKO, M.D.

Device for the MPO-2 film oscillograph for recording on photographic paper 120mm wide. Zav.lab. 22 no.3:363-364 '56. (MLRA 10:5)

1.Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.

(Oscillograph)

A mirror drum is attached inside a MPO-2 oscillograph is such a way that the plips reflected from its faces fall on the middle of the screen. In place of the screen, a cartridge containing 20 meters of photographic paper 120 millimeters wide is used. The design of the cartridge is similar to that of Siemens.



KOCHENEVA, D.Ya.

Treatment of acute and chronic dysentery in adult with synthomycin.
Klin. med., Moskva 31 no.6:45-47 June 1953. (CIML 25:1)

1. Moscow.

KOCHERGIN, B.I. (Sverdlovsk)

Constructing buildings of few stories on shallow foundations in the Central Urals. Osn., fund. i mekh. grun. 2 no.5:16-17 '60. (MIRA 13:9)

(Ural Mountain region—Foundations)

KOCHEMKOV, ANATOLIY

Radio - Competitions

Impressions of the radio-telephone contests. Radio, 29, No. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1952, Uncl.

SOV/89-7-2-4/24

21(9)

AUTHOR: Kochenov, A. S.

TITLE: The Stability of a Nuclear Power Plant (K voprosu ob ustoychivosti yadernoy energeticheskoy ustanovki)

PERIODICAL: Atomnaya energiya, 1959, Vol 7, Nr 2, pp 122 - 128 (USSR)

ABSTRACT: In an atomic power plant in which the source of heat is a water-cooled and water-moderated reactor with a negative temperature coefficient, a steam generator is installed between the turbine and the reactor, which produces saturated steam. The installation of only two control elements is planned, i.e. one element before the turbine and another which keeps the water in the steam generator on the same level. The kinetic equations for the reactor, for the steam generator and for the turbine were calculated by use of the one-group theory and with consideration of only one group of delayed neutrons, and subsequently the instability criteria were derived. For simplification only small perturbing parameters were admitted. Non-linear equations were transformed into linear equations. The theoretical work permits the following conclusions: 1) If the quantity

Card 1/3

$\delta = \frac{di''}{dt_2} Q_{2o} - \frac{A_2}{A_1}\left(i''_o - i_{Sp.W}\right) > 0$, the whole system reactor - steam generator - turbine is stable with any kind of preheating of the water in the reactor. 2) If $\delta < 0$ there are certain unstable ranges at certain preheatings (shown by curves). The figures of these ranges and their measurements can be computed by the following relations:

$$\Delta T_o > \frac{\frac{1}{\lambda}|\delta| - \left(\frac{\beta}{\lambda} + 1\right) G c p_2}{\frac{a(1-\beta)}{2\lambda} G c p_2} \cdot \frac{1-\exp\left(-\frac{K_L L}{G_1 c p_1}\right)}{1+\exp\left(-\frac{K_L L}{G_1 c p_1}\right)} - \Delta T_1$$

$$\Delta T_o < \frac{2 N_o}{|\delta|} \cdot \frac{1-\exp\left(-\frac{K_L L}{G_1 c p_1}\right)}{1+\exp\left(-\frac{K_L L}{G_1 c p_1}\right)} - \Delta T_2, \; A \Delta T_o^2 + B \Delta T_o + C > 0.$$

The roots of the square trinomial are ΔT_3 and ΔT_4; $A > 0$. The described relations make it possible to determine the stability

Card 2/3

of the systems in installations of any kind of measurements. In the existing installations the parameters of the system are such that $\Delta T_1 < 0$, $\Delta T_3 < 0$ and $\Delta T_4 < 0$. The range of stability therefore is in the interval $0 < \Delta T_o < \Delta T_2$ when the quantity $\Delta T_2 \sim 10^3$° C, thus it exceeds the actual preheating of the water in the reactor. It has to be mentioned that for a reactor with a positive temperature coefficient this system of derived inequations is inconsistent and that the operations of the whole installation are unstable. Several problems were discussed with Sg M. Feynberg and Ya. V. Shevelev. There are 4 figures and 3 references, 2 of which are Soviet.

SUBMITTED: September 3, 1958

Card 3/3

KOCHEMOV, A.V.; STOLYAROV, A.S.

Some forms of iron sulfide segregation in the cross section of Maikop deposits of southern Mangyshlak. Dokl.AN SSSR 133 no.6:1412-1415 Ag '60. (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. Predstavlena akad. N.M.Strakhovym.
(Mangyshlak Peninsula--Iron sulfides)

MSTISLAVSKIY, M.M.; KOCHAMOV, A.V.

Maikop bone breccias and mass destruction of fishes in the "red waters."
Dokl. AN SSSR 134 no.5:1169-1172 O '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.
Predstavleno akademikom N.M.Strakhovym.
(Mangyshlak Peninsula--Fishes, Fossil)

ZORIN, A.M., kand. sel'skokhozyaystvennykh nauk; KOCHENOV, D.A., mladshiy nauchnyy sotrudnik.

Age of cows at the first calving and their rating by yields of the first lactation period. Zhivotnovodstvo 20 no.6:64-67 Je '58. (MIRA 11:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhivotnovodstva.
(Cow testing)

KOCHENOV, I. S.

"On the Investigation of the Transient Processes in Continuously Operating Coil Boilers." Cand Tech Sci, Power Engineering Inst imeni G. M. Krzhizhanovskiy, Acad Sci USSR, 30 Dec 54. (VM, 22 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: SUM No. 556, 24 Jun 55

2866 Kochenov, I. S.

Issledovaniyu perekhodnykh protsessov v pryamotochnykh kotlakh. M., 1954. 16 s. 21 sm. (Akad. nauk SSSR. Energet. in-t im. G. M. Krzhizhanovskogo). 100 Ekz. B. ts. - (54-56133)

Kochenov, I. S.

USSR/Fluid Mechanics. Heat transfer

Abs Jour: Ref Zhur-Mekhanika, No 5, 1957, 6802

Author : Kochenov, I. S.
Inst :
Title : On nonstationary fluid flow in a heated pipe.

Orig Pub: Dokl. AN SSSR, 1956, 107, No 5, 689-692

Abstract: The one-dimensional problem of the nonstationary thermal conditions of the flow of an incompressible fluid in a pipe is studied. The nonstationary condition arises as the result of instantaneous changes in the mass rate of flow, its heat content at the entrance to the pipe, or the intensity of heat at the outer surface of the pipe. Assuming constant specific volume and a constant coefficient of heat transfer, and linear dependence of the enthalpy of the fluid on its temperature, the given problem reduces to a system of linear differential equations with linear boundary conditions, which may be integrated by the Laplace transformation method. Satis-

Card 1/2

KOCHENOV, I.S.

Transition processes in heated pipes. Insh.-fiz.zhur. no.10: 18-28 O '58. (MIRA 11:11)
(Steam engineering) (Steampipes)

10.4000

58765

AUTHORS: Kochenov, I. S., Romodanov, V. L. S/170/59/002/11/011/024
B014/B014

TITLE: The Drag Coefficient of a Flowing Liquid With Outflow Through a Porous Wall

PERIODICAL: Inshenerno-fizicheskiy zhurnal, 1959, Vol 2, Nr 11, pp 70-80 (USSR)

ABSTRACT: Equation (1) is given for the change in pressure along a flow in which the inflow and the outflow through porous walls are taken into account. It results that pressure is reduced by the inflow of a liquid, whereas it is raised by its outflow. Further considerations show that the drag coefficient of a laminar flow as defined by (2) is easily determined from the local values of the Reynolds numbers and the local ratio between the outflow- and flow velocities. There are 3 references.

Card 1/1

21/1330

21 (9)

68781

S/170/59/002/12/010/021

B014/B014

AUTHOR: Kochenov, I. S.

TITLE: Heat Calculation of a Fuel Channel of a Nuclear Reactor

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1959, Vol 2, Nr 12, pp. [illegible] (USSR)

ABSTRACT: The author first writes down formulas (1) and (2) for the heat production of a fuel element of a nuclear reactor, equations (3), (4), and (5) for the coefficient of nonuniformity of the heat production, and an approximate formula (6) for the effective thickness of the end reflector. Formula (8) describes an arbitrary and formula (9) a sinusoidal heat production along the active section of a fuel element. Proceeding from these formulas the author studies the case in which a local flash-up is superimposed on the sinusoidal heat production. This is explained by four possible causes. Next, equation (10) is written down for the coefficient of local nonuniformity. Equations (22) and (23) describe the heat production in this case. Formula (9) is a special case of these formulas. There is 1 Soviet reference.

Card 1/1

KOCHENOV, I.S.

Flow in canals with outflow and inflow through the walls. Trudy MIIT no.139:158-162 '61. (MIRA 16:4)

1. Institut atomnoy energii AN SSSR.
(Fluid dynamics)

YEGOROV, Viktor Alekseyevich; KOCHENOV, M.I., kand. tekhn. nauk, retsenzent; KARGANOV, V.G., insh., red.; SMIRNOVA, G.V., tekhn. red.; SOKOLOVA, T.F., tekhn. red.

[Optical and feeler devices for determining the roughness of surfaces] Opticheskie i shchupovye pribory dlia opredelennoi sherokhovatosti poverkhnosti. Moskva, Ges. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 155 p. (MIRA 14:5)

(Surfaces (Technology)—Testing)

BERKLAYD, I.M.; VIKHMAN, V.S., doktor tekhn. nauk; DRAUDIN, A.T.; KOPANKEVICH, N.Ye.; OVCHARENKO, G.I.; TUHENSHLYAK, Z.L.; CHASOVNIKOV, G.V.; TSKYTLIN, Ya.M.; BAYBUKOV, B.S., red.; KOCHENOV, M.I., red.; MALYY, D.D., red.; STROGANOV, L.P., inzh., red. izd-va; DOBROTVORINA, R.I., tekhn. red.

[Automatic controllers] Kontrol'nye avtomaty. Moskva, Mashgiz, tekhn. izd-vo mashinostroit. lit-ry, 1961. 193 p. (MIRA 14:8)
(Electronic measurements)

GOLOUL'NIKOV, Ye.M.; KOCHENOV, M.I.; PELIKS, A. Ya.; CHAMAN, V.S.

New goniometric table with an induction transmitter. Izm.tekh. no.4:9-13 Ap '61. (MIRA 14:3)
(Goniometers)

KOCHENOV, N.; KRUTOGOROV, Yu.

The road leads to the village. Zhil.-kom. khoz. 13 no.5:8-9 My '63. (MIRA 16:8)

(Moscow Province—Rural conditions)

KOCHENOV, S.I., inzh.

Improving the contact tip on the A574r semiautomatic machine.
Svar. proizv. no.9:36-37 S '64. (MIRA 17:12)

KOCHENOV, V.M.

[Bearing capacity of elements and joints in wooden constructions] Nesushchaia sposobnost' elementov, i soedinenii dereviannykh konstruktsii. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1953. 319 p. (MLRA 6:10)
(Wood) (Building)

112-2-3697D

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 2, p. 171 (USSR)

AUTHOR: Kochenova, A. I.

TITLE: The Principles of Current Transformer Error Calculation (Osnovy rascheta pogreshnostey transformatorov toka)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to the All-Union Electrical Engineering Institute (Vses. elektrotekhn. in-t), Moscow, 1956.

ASSOCIATION: All-Union Electrical Engineering Institute (Vses. elektrotekhn. in-t)

Card 1/1

A.I.; GERTNER, L.K.; ARONOVICH, I.S.; LYOLYAVSKIY, V.S.

Professor V.B. Romanovskii. Elektrichestvo no.2:92 F '56. (MLRA 9:5)

(Romanovskii, Vladimir Borisovich, 1896-)

KOCHERGOVA, A.I., inshener; YUDINA, A.A., inshener.

400-kv current transformers for the Kuybyshev-Moscow transmission Line. Elektrichestvo no.3:38-45 Mr '56. (MLRA 9:6)

1.Zavod "Elektroapparat".
(Electric transformers)

ALEKSANDROV, A.G., dots; ARONOVICH, I.S., insh.; BABIKOV, M.A., doktor tekhn.nauk; BATUSOV, S.V., kand.tekhn.nauk; BEL'KIND, L.D., doktor tekhn.nauk; VENIKOV, V.A., doktor tekhn.nauk; VESELOVSKIY, O.N., kand.tekhn.nauk; GOLOVAN, A.T., doktor tekhn.nauk; GOLUBTSOVA, V.A., doktor tekhn.nauk; GRATKOR, L.K., insh.; GRUDINSKIY, P.G., prof.; GUSEV, S.A., insh.; DMOKHOVSKAYA, L.F., kand.tekhn.nauk; DROZDOV, N.G., doktor tekhn.nauk; IVANOV, A.P., doktor tekhn.nauk [deceased]; KAGANOV, I.L., doktor tekhn.nauk; KERBER, L.L., insh.; KOCHENOVA, A.I., kand.tekhn.nauk.; LARIONOV, A.N.; MINOV, D.K., doktor tekhn.nauk; NETUSHIL, A.V., doktor tekhn.nauk; NIKULIN, N.V., kand.tekhn.nauk; NILMIDER, R.A., prof.; PANTYUSHIN, V.S., prof.; PASYNKOV, V.V., doktor tekhn.nauk; PETROV, G.N., doktor tekhn.nauk; POLIVANOV, K.M., doktor tekhn.nauk; PRIVEZENTSEV, V.A., doktor tekhn.nauk; RADUNSKIY, L.D., insh.; RENNE, V.T., doktor tekhn.nauk; SVECHARSKIY, A.D., doktor tekhn.nauk; SOLOV'YEV, I.I., doktor tekhn.nauk; STUPEL' F.A. kand.tekhn.nauk; TALITSKIY, A.V., prof.; TEMNIKOV, F.Ye., kand.tekhn. nauk; FEDOROV, L.I., insh., FEDOSEYEV, A.M., doktor tekhn.nauk; KHOLYAVSKIY, G.B., insh.; CHECHET, Yu.S., doktor tekhn.nauk; SHNEY-BERG, Ya.A., kand.tekhn.nauk; SHUMILOVSKIY, N.N., doktor tekhn.nauk; ANTIK, I.B., red.; MEDVEDEV, L.Ya., tekhn.red.

[The history of power engineering in the U.S.S.R. in three volumes] Istoriia energeticheskoi tekhniki SSSR v trekh tomakh. Moskva, Gos. energ. izd-vo.

(Continued on next card)

ALEKSANDROV, A.O.--(continued) Card 2.

Vol.2. [Electric engineering] Elektrotekhnika. Avtorskii kollektiv toma: Aleksandrov i dr. 1957. 727 p. (MIRA 11:2)

1. Moscow. Moskovskiy energeticheskiy institut. 2. Chlen-korrespondent AN SSSR (for Larionov)
(Electric engineering)

ZALESSKIY, Aleksandr Mikhaylovich, doktor tekhn. nauk, prof.; BACHURIN, Nikolay Ivanovich; ARONOVICH, I.S., inzh., retsenzent; GREYNER, L.K., inzh., retsenzent; GREYSUKH, M.A., inzh., retsenzent; KOCHENOVA, A.I., inzh., retsenzent; MESSERMAN, G.T., inzh., retsenzent; KHOLYAVSKIY, G.B., inzh., retsenzent; SHKLYAR, B.N., inzh., retsenzent; AVANAS'YEV, V.V., red.; SOBOLEVA, Ye.M., tekhn. red.

[Insulation of high-voltage apparatus] Izoliatsiia apparatov vysokogo napriazheniia. Moskva, Gos. energ. izd-vo, 1961. 258 p. (MIRA 14:9)

1. Zavod "Elektroapparat" (for Aronovich, Greyner, Greysukh, Kochenova, Messerman, Kholyavskiy, Shklyar).
(Electric insulators and insulation)

AYZENBERG, I.S.; ARONOVICH, I.S.; AFANAS'YEV, V.V.; BROM, O.B.; BUTKEVICH, G.V.; GOLUBEVA, V.P.; GURVICH, V.V.; ZALESSKIY, A.P.; ZAKHAROV, S.N.; KAPLAN, V.V.; KOCHENOVA, A.I.; KUKEKOV, G.A.; LYSOV, N.Ye.; MEDVED-SKIY, I.K.; MESSERMAN, G.T.; PETROVA, T.G.; FILIPPOV, Yu.A.; KHOLYAVSKIY, G.B.; SHERAUD, M.Ye.; SHKLYAR, B.N.

L.K. Greiner. Elektrotekhnika 35 no.2:p.3 of cover F '64.
(MIRA 17:3)

BELITSKAYA, Marina Sergeyevna; LIMANOV, Yevgeniy Andreyevich; KOCHENOVA, A.I., red.

[Direct current and voltage transformers for high-voltage converter systems] Transformatory postoiannogo toka i napriazheniia dlia vysokovol'tnykh preobrazovatel'nykh ustanovok. Moskva, Energiia, 1964. 235 p. (MIRA 18:1)

9.9100

82148

S/141/60/003/03/003/014
B192/B382

AUTHORS: Svechnikov, A.M., Chasovitin, Yu.K. and Kochenova, N.A.

TITLE: Some Results of the Measurements of Radio-wave Absorption in the Ionosphere

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, 1960, Vol. 3, No. 3, pp 375 - 383

TEXT: The results reported were obtained at Rostov-on-Don during June 1958 - June 1959. The geographical position of Rostov is 47°13' Northern Latitude and 39°41' Eastern Longitude. The measurements formed a part of the programme of the Third International Geophysical Year. The measurements were carried out by the reflected-pulse method. The frequency employed was 2.2 Mc/s and 3.0 Mc/s. The equipment consisted of a pulse transmitter, a receiver and a photo-recording unit. The transmitter produced pulses of 200 μs duration, having a repetition rate of 50 p.p.s., the pulse power being up to 5 kW. The receiver was of the usual superheterodyne type and had a bandwidth of 9 kc/s. The sensitivity of the receiver could be varied in steps. The receiver had a linear amplitude characteristic over a wide range of input signals. The output signals

Card1/4

Some Results of the Measurements of Radio-wave Absorption in the Ionosphere

of the receiver were applied directly to the plates of an oscillograph. The receiver and the transmitter were situated at a distance of 5 km from each other so that the operation of the transmitter could easily be controlled by measuring the amplitude of the direct signal. The photo-recording equipment consisted of a narrow-film cine camera and an automatic control system. By means of this equipment it was possible to photograph the pulses reflected during equal time intervals. An example of the recording is shown in Fig. 1, where the highest pulse on the lefthand side represents the direct signal. The absorption coefficient for the waves propagating through the ionosphere could be determined from the amplitude of the first reflected pulse and from the time constant of the equipment. The average values of the absorption coefficient L for various months of the year are illustrated in Fig. 2; the figure also shows the critical

4

Some Results of the Measurements of Radio-wave Absorption in the Ionosphere

frequency of the E-layer and the minimum frequency for each month. Further experimental results are shown in Figs. 3, 4, 5 and 6 and in Table 1. From these results it is found that the dependence of the absorption coefficient L on frequency cannot be described by $L = (w + w_L)^{-2}$, where $\lambda_1 = w_H \cos \alpha$; w_H is the gyro frequency and α is the angle between the magnetic field and the normal to the wave. However, during the winter months the absorption coefficient as a function of frequency can be approximated as $L = (w + w_L)^{-1}$, while during the summer months the frequency dependence of L is even less pronounced. The daily variation of the absorption can approximately be described by $L = (\cos \chi)^n$, where n is an index depending on the

Card 3/4

Some Results of the Measurements of Radio-wave Absorption in the Ionosphere

month of the year, usually having a value ranging from 0.55 to 0.80, while χ is the zenith angle of the sun. The author expresses his appreciation to S.S. Chavdarov for supervising this work and for valuable remarks. There are 6 figures, 1 table and 11 references: 7 English and 4 Soviet.

ASSOCIATION: Rostovskiy-na-Donu gosudarstvennyy university (Rostov-on-Don State University)

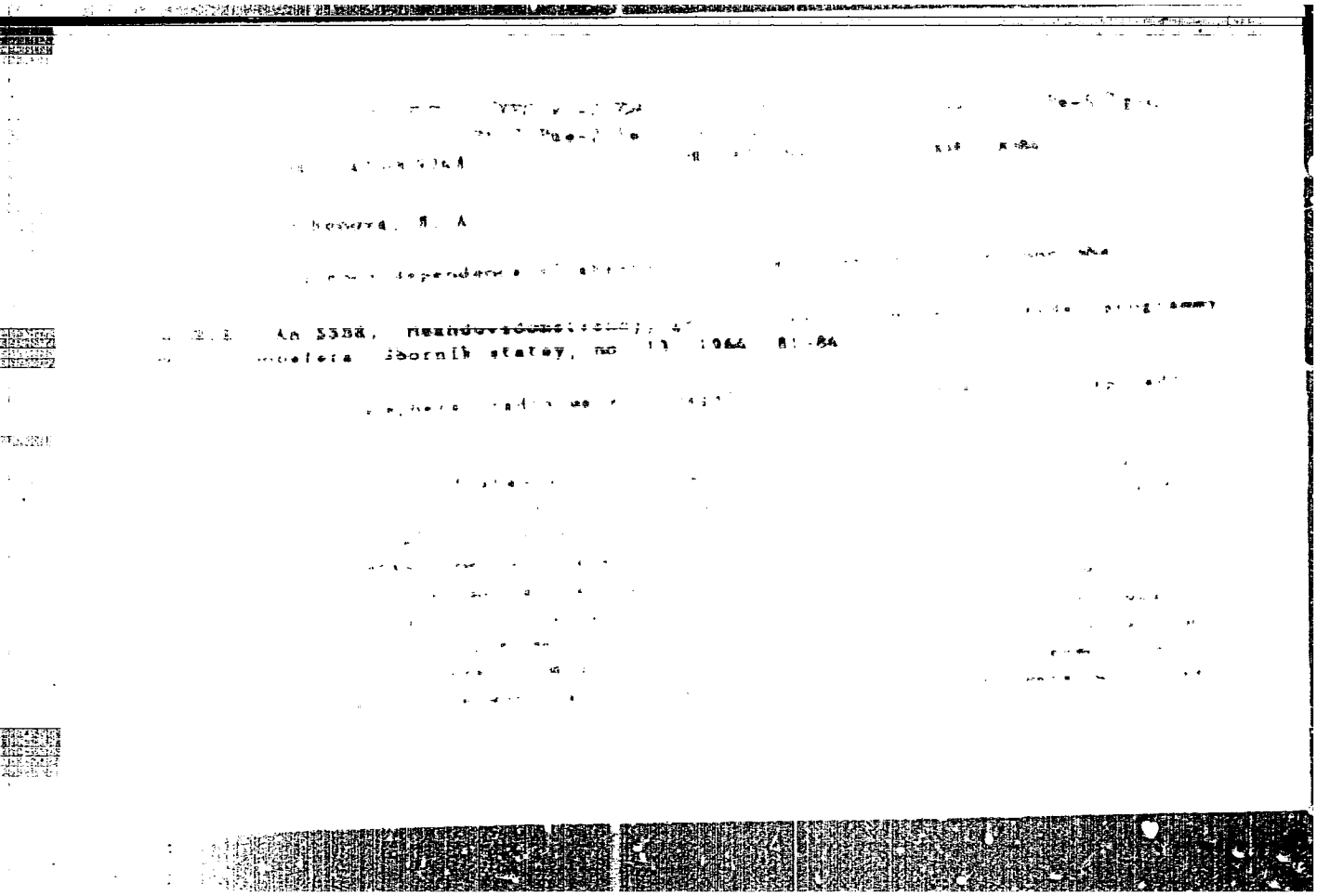
SUBMITTED: November 16, 1959

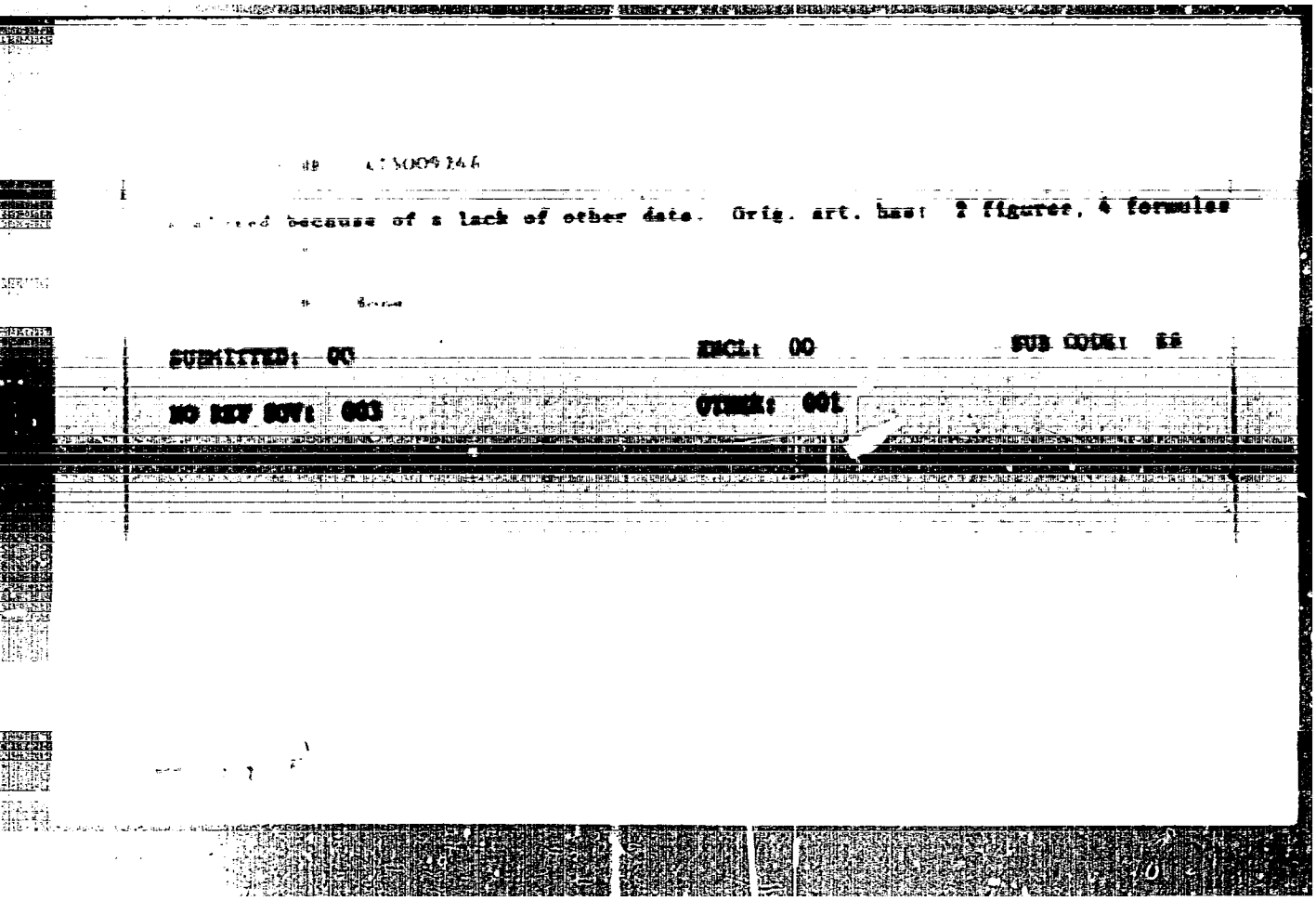
Card 4/4

DANILKIN, N.P.; KOCHENOVA, N.A.; SVECHNIKOV, A.M.; CHAVDAROV, S.S.; YAROSHEVA, A.I.

State of the ionosphere over Rostov-on-Don during the total solar eclipse of Feb. 15, 1961. Geomag. i aer. 1 no.4:612-615 Jl-Ag '61. (MIRA 14:12)

1. Rostovskiy-na-Donu gosudarstvennyy universitet, kafedra eksperimental'noy i teoreticheskoy fiziki.
(Ionosphere)
(Eclipses, Solar—1961)





...ed because of a lack of other data. Orig. art. has: 2 figures, 4 formulas

SUBMITTED: 00 ENCL: 00 SUB CODE: ES

NO REF SOV: 003 OTHER: 001

KOCHENOVSKIY, O.V., inzh.

Make more extensive use of larch in the furniture industry.
Der. prom. 14 no.8:20 Ag '65. (MIRA 18:10)

BALOD, Yu.; KOCHENOVSKIY, Yu.

First anniversary of a trade agreement. Vnesh.torg. 42 no.12:19-20 '62. (MIRA 15:12)

(Russia--Commerce--Cyprus)
(Cyprus--Commerce--Russia)

ACC NR: AP6021460 SOURCE CODE: UR/0413/66/000/011/0080/0080

INVENTOR: Drozdov, A. A.; Bereza, G. V.; Kochepasov, A. P.; Maksimok, N. V.; Sharikov, V. V.

ORG: None

TITLE: A device for centralized control of the amplitude of seismic signals in seismic stations. Class 42, No. 182353 [announced by the All-Union Scientific Research Institute of Geophysical Exploration Methods (Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki)]

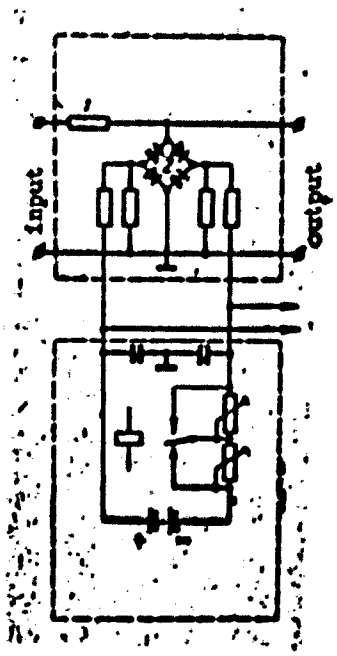
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 80

TOPIC TAGS: nonelectric signal equipment, seismology

ABSTRACT: This Author's Certificate introduces a device for centralized control of the amplitude of seismic signals in seismic stations. The installation contains a mechanical stepper switch. Reliability is improved by installing a voltage divider at the input of each channel of the seismic station. One arm of this divider is a resistor connected in series with the signal circuit, while the other is a bridge type diode switch connected in parallel with the signal circuit.

Card 1/2 UDC: 550.340.19

ACC NR: AP6021460



1--resistor
2--diode switch

SUB CODE: 08, 09/ SUBM DATE: 13May65

Card 2/2

KOCHER, J.

Eliminating shrink holes from castings of cutting bars. p.104.

SLEVARENSTVI. (Ministersivo tezkeho strojirenstvi a Ceskoslovenska vedecka technicka spolecnost pro hutnictvi a slevarensivi). Praha, Czechoslovakia, Vol. 7, no. 3, Mar. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 7, July 1959 uncla.

1. GORBACHEV, S.; KOCHER, S.

2. USSR (600)

4. Peat Industry

7. Using the TEK-2 potato digger for loading shredded peat. MTS 12 no.10, 1952.

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

KOCHER, S. G.

4632. Bol'shoho torfa dlya vdobreniya. M., goskul'tprosvetizdat, 1954. 15 s; 2 L. Ill. 22 cm. (Vsesoyus. s. - kh. vystavka) 12.000 eks. 25 k. - Na Obl. Avt. Ne Ukazan. - (54-58039) p 631.87

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

NIKONOV, M.N., prof.; FATCHIKHINA, O.Ye., kand. sel'khoz. nauk; GORSHKOV, L.A.; KOCHER, S.O.; KATS, P.S., kand. sel'-khoz. nauk; GRIGOR'YEVA, A.I., red.; SOKOLOVA, N.N., tekhn. red.

[Peat in agriculture] Torf v sel'skom khoziaistve. [By] M.N. Nikonov i dr. Moskva, Sel'khozizdat, 1962. 166 p. (MIRA 15:11)
(Fertilizers and manures) (Peat)

CZECHOSLOVAKIA

BYSL, V.; JONAKOVA, M.; KOUTENSKY, J.; KOCHER, Z.; KEHL, P.; SYKORA, J.; Pharmacological and Physical Institute, Faculty of Medicine, Charles University; Department of Occupational Diseases (Farmakologicky a Fysikalni Ustav Lek. Fak. KU a Oddeleni pro Choroby z Povolani), SFN [Abbreviation not explained], Plzen.

"The Effect of Dibenzylethylenediamine Salts of CaEDTA."

Prague, Ceskoslovenska Fysiologie, Vol.15, No 5, Sep 66, p 419

Abstract: The effect of the dibenzylethylenediamine salt of CaEDTA on the excretion of Mn and on its distribution in the organism was investigated. The content of Mn in the liver is reduced after the application of the discussed substance. The level of chelates in the organism is increased. No references. Submitted at 14 Days of Pharmacology at Smolenice, 17 Feb 66.

1/1

SYKORA, J.; KOCHER, Z.; BYSL, V.

Effect of $CaNa_2$EDTA on the excretion of lead in experimental lead poisoning. (Ca^{+2}). Cesk. fysiol. 8 no.4:325 July 59.

1. Farmakologicky ustav lek. fak. KU Plzen.
(EDATHAMIL, pharmacol.) (LEAD POISONING, exper.)

EYBL, V.; SYKOVA, J.; KOCHER, Z.

EDTA and cobalt poisoning. Cesk. fysiol. 8 no.4:331-332 July 59.

1. Farmakologicky ustav lek. fak. KU, Plzen.
(EDATHAMIL, pharmacol.) (COBALT, toxicol.)

CZECHOSLOVAKIA

EYBL, V., Institute of Pharmacology (Farmakologicky ustav), Faculty of Medicine (Lekarska fakulta), Charles University, Plzen, Prof. Dr Z. KOCHER, director; SYKORA, J., Department for Occupational Diseases (Oddeleni pro choroby z povolani), Faculty Hospital, Plzen, P. HUZL, MD, Candidate of Sciences, director; and MERTL, F., Physics Institute (Fyzikalni ustav), Faculty of Medicine (Lekarska fakulta), Charles University, Plzen, Docent Dr M. PFIRAN, Candidate of Sciences, director.

"Effect of Calcium Complexes of Aminopolycarbonic Acids on an Experimental Acute Cadmium Poisoning"

Prague, Pracovni Lekarstvi, Vol XV, No 6, August 1963, pp 234-238.

Abstract [Authors' English summary]: Experiments on mice provided evidence that the best protective effect among calcium complexes of aminopolycarbonic acids in acute experimental $CdCl_2$ poisoning is offered by CaDTPA. The toxicity of Cd complexes of aminopolycarbonic acids is directly proportional to the stability constant for Cd. In acute experiments on rats Ca complexes of EDTA and DTPA administered by the i.p. route simultaneously with the s.c. administration of $Cd^{115m}Cl_2$ (with carrier) increase significantly the urinary cadmium excretion and reduce markedly the cadmium content of the liver. CaDTPA is significantly more effective. When Ca complexes are administered only 24 hours after the administration of 1/2

2/2

ACC NR: AT6037022 (A,N) SOURCE CODE: UR/0181/66/008/011/3445/3447

AUTHOR: Zhurkin, B. O.; Kucherenko, I. V.; Penin, N. A.

ORG: Physics Institute im. P. N. Lebedev, AN SSSR, Moscow (Fizicheskiy institut AN SSSR)

TITLE: Influence of uniaxial compression on the jump conductivity in p-Si

SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3445-3447

TOPIC TAGS: silicon semiconductor, semiconductor conductivity, pressure effect, activation energy, temperature dependence

ABSTRACT: The purpose of the investigation was to determine the dependence of the activation energies ϵ_2 and ϵ_3 on the pressure in p-Si. The measurements of the electric conductivity were made in a sample with boron impurity 1.6×10^{18} cm^{-3} at pressures 0.37 kg/mm^2 and temperature 4.2 - 77K. The pressure and the current through the sample were both parallel to the [110] direction. The tests showed that the temperature dependence of the conductivity can be represented as a sum of exponentials in the activation energy,

$$\sigma = \sum_{i=1}^{3} \sigma_i \exp\left(-\frac{\epsilon_i}{kT}\right).$$

The conductivity with activation energy ϵ_1 corresponds to transition of holes from

ACC NR: AP6037022

the acceptor states to the valence band, and remains practically uncharged with pressure. The conductivities with activation energies ϵ_2 and ϵ_3 correspond to the jump conductivity, and increase with pressure. The relation between the change in the values of ϵ_2 and ϵ_3 and the distortion of the spherical form of the acceptor wave function are discussed, and the resultant addition to the Coulomb-interaction energy is evaluated. The results are discussed from the point of view that the ϵ_2 process is connected with the ionization of the acceptor atoms (change from states A^2 to states A^+), and the ϵ_3 process represents negative ionization of the acceptor atoms (transition from A^0 to A^-). It is suggested that the effective Bohr radius of the states A^+ and A^0 increase with increasing uniaxial compression. The authors thank B. M. Vul for a discussion of the results. Orig. art. has: 2 figures and 1 formula.

SUB CODE: 20/ SUBM DATE: 17Jun66/ OTH REF: 005

Card 2/2

VOROB'YEV, A.A.; VOROB'YEV, G.A.; KOCHERBAYEV, T.K.; KOSTYUGIN, V.A.; MEKHASOVA, L.G.

Effect of electrodes and the structure of a dielectric crystal on its electric strength. Fiz. tver. tela 6 no.5:1560-1562 My '64. (MIRA 17:9)

1. Tomskiy politekhnicheskiy institut imeni Kirova.

VOROB'YEV, G.A.; KOCHERBAYEV, T.K.

Effect of the cathode material on the electrical strength of a solid dielectric. Radiotekh. i elektron. 9 no.3:557-559 Mr '64. (MIRA 17:4)

ZAVADOVSKAYA, Ye.K.; KOCHERBAYEV, T.K.

Electric strength of single crystals in solid solutions of the system KCl-KBr. Izv. vys. ucheb. zav.; fiz. 8 no.1:69-72 '65.
(MIRA 18:3)

1. Tomskiy politekhnicheskiy institut imeni Kirova.

KOCHERBAYEV, T.K.

Effect of annealing on the electric strength of alkali halide salts. Izv. vys. uchob. zav.; fiz. 8 no.2:20-22 '65. (MIRA 18:7)

1. Tomskiy politekhnicheskiy institut imeni Kirova.

K[illegible], [illegible]

"Comparative Characteristics of the Exterior and of the [illegible] System of Certain Groups of Farm Animals." Cand Biol Sci, Inst of Animal Morphology imeni A. N. Severtsov, Acad Sci USSR, 11 Feb 54. Dissertation ([illegible] Moskva, Moscow, 2 Feb 54)

SO: SUM 186, 19 Aug 1954

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510002-1"

Kochereshkin V. G.

AUTHORS: Shirshov, V., Candidate of Agricultural Sciences, 29-4-6/20
Kochereshkin, V., Candidate of Biological Sciences.

TITLE: Contribution of Scientists to Agriculture (Vklad uchenykh v sel'skoye khozyaystvo)

PERIODICAL: Tekhnika Molodezhi, 1958, Nr 4, pp. 9-10, 32 (USSR)

ABSTRACT: The problem of the alimentation and growth of plants is of extraordinary importance for the mankind. Both scientists and practicians of agriculture have endeavored since long to investigate the processes of the formation of organic substances in the vegetal organism. The plants have two synthetic laboratories. The first are the leaves where the process of photosynthesis takes place; the second are the roots which process approximately 25% of the carbonic acid contained in the soil. The discovery and investigation of the metabolism in plants was achieved by means of using radioactive carbon C^{14}, sulfur S^{35}, calcium Ca^{45} and phosphorus P^{32}. "Marked" perphosphate made it possible to determine the most favorable terms for fertilizing and the maximum efficiency of the fertilizers. A great number of agricultures, such as cotton, beetroots, sunflowers, tomatoes, tobacco, as well as some species of fruit, urgently require additional substances. With a fertilization

Card 1/3

of the soil, however, difficulties occur frequently. The method of marked atoms made it possible to follow the additional reception of food by the leaves. This new agricultural method is introduced increasingly in agriculture. The method of marked atoms is applied in various fields of biology. Applying this method, Soviet hydrobiologists and fish-breeders obtained numerous data which are important for production. The annual production of photosynthesis in the water-reservoir of Rybinsk was determined by this method in 1955. A method for the fertilization of fishponds was equally elaborated by means of marked atoms. Also the marking of the fry serves immediately for the determination of the efficiency of the measures taken in the field of fish-breeding. The admixture of marked atoms to fish-food makes it possible to follow the reception and conversion of the food in the organism. This is of special importance since besides great care correct alimentation represents an important factor for increasing the production (yields of wool, meat, fat, milk, eggs, etc.). It was also possible - by means of marked atoms - to determine the relation between the chlorophyll-content of the food and the haemoglobin of the blood. This made it possible to fight the deficiency diseases of animals, occuring in winter.

Contribution of Scientists to Agriculture 24-46/20

There are 6 figures.

AVAILABLE: Library of Congress

1. Agriculture-USSR 2. Scientific research-USSR 3. Isotopes (Radioactive)-Applications

Card 3/3

27608
S/030/61/000/009/013/013
B105/B101

27.12 20

AUTHOR: Kocheresbkin, V. G., Candidate of Biological Sciences

TITLE: Discussion of problems concerning the biological effect of radiation

PERIODICAL: Akademiya nauk SSSR. Vestnik, no. 9, 1961, 137-138

TEXT: A scientific conference was convened on May 29, 1961 for discussions of the problem "Primary and initial mechanisms of the biological effect of radiation". Under discussion were results and prospects of studies of the part played by a damaging of nucleic acids in the process of reaction to radiation. The conference was attended by delegates from scientific institutions of the Akademiya nauk SSSR (Academy of Sciences USSR) and of the Akademiya meditsinskikh nauk SSSR (Academy of Medical Sciences USSR). The participants were informed of laboratory work done on the subject and of data obtained. The following heads of laboratories are mentioned: A. M. Kuzin, Institut biofiziki Akademii nauk SSSR (Institute of Biophysics of the Academy of Sciences USSR), A. G. Pasynskiy, Institut biokhimii im. A. N. Bakha Akademii nauk SSSR (Institute of Biochemistry imeni A. N. Bakh

Card 1/3

Discussion of problems concerning the ...

of the Academy of Sciences USSR), V. P. Paribok, Institut evolyutsionnoy fiziologii im. I. M. Sechenova Akademii nauk SSSR (Institute of Evolutional Physiology imeni I. M. Sechenov of the Academy of Sciences USSR), L. A. Tumerman, Institut radiatsionnoy i fiziko-khimicheskoy biologii Akademii nauk SSSR (Institute of Radiation- and Physicochemical Biology of the Academy of Sciences USSR), M. N. Meysel', Institut mikrobiologii Akademii nauk SSSR (Institute of Microbiology of the Academy of Sciences USSR), P. I. Tseytlin, Institut eksperimental'noy biologii Akademii meditsinskikh nauk SSSR (Institute of Experimental Biology of the Academy of Medical Sciences USSR). New data on the high lability in supermolecular structures of desoxyribonucleic acid under the effect of radiation were discussed along with the different radiosensitivity of nucleoproteins in vitro and in the living cell, and the behavior of desoxyribonucleic acid in phages and infected cells exposed to irradiation. Further objects of discussion were methods applied to these problems, the value and the interdependence of investigations conducted in vitro, on the cell, and on whole organisms. Prospects offered by the development of physicochemical studies of desoxynucleoprotein and desoxyribonucleic acid of phages after irradiation were emphasized. It was recommended that problems concerning

Card 2/3

27608
S/030/61/000/009/013/013
B105/B101

Discussion of problems concerning the ...

the metabolism of nucleic acids in irradiated organisms be made the subject of further discussions. [Abstracter's note: Essentially complete translation.]

Card 3/3

27890
S/030/61/000/010/009/011
B116/B102

27 1220

AUTHOR: Kocherezhkin, V. G., Candidate of Biological Sciences

TITLE: Effect of small doses of ionizing radiation on physiological functions

PERIODICAL: Akademiya nauk SSSR. Vestnik, no. 10, 1961, 136 - 137

TEXT: This is a report on the Soveshchaniye po voprosam deystviya malykh doz ioniziruyushchey radiatsii na fiziologicheskiye funktsii (Conference on the Effect of Small Doses of Ionizing Radiation on Physiological Functions) held by the Otdeleniye biologicheskikh nauk (Department of Biological Sciences) jointly with the Nauchnyy sovet po probleme "Radiobiologiya" (Scientific Council for the "Radiobiology" Problem) in Moscow from May 22 to 24, 1961. The main subject of the reports was the central nervous system. The Conference was attended by about 200 delegates of various institutions of the Akademiya nauk SSSR (Academy of Sciences USSR), the Akademii meditsinskikh nauk SSSR (Academy of Medical Sciences USSR), the Academies of Sciences of the Union Republics, the Ministries of Public Health of the USSR, RSFSR, BSSR, and UkrSSR. 31

Card 1/4

Effect of small doses...

reports were delivered. A. M. Kuzin, Chairman of the Organizing Committee, delivered the opening address. A. V. Lebedinskiy and Yu. I. Moskalev reported on the state and prospects of studies on the biological effect of small doses of ionizing radiation. In their opinion, the problems of the "threshold", accumulation, regeneration, compensation, and radiosensitivity should be studied in great detail. The lecturers showed that at the molecular level there is no threshold for the effect of the different types of ionizing radiation, the various structures of the organism changing at first. Other lecturers dealing with the same subject pointed out that ionizing radiation acts as general irritant of biological systems. A collective of scientists who worked under the supervision of M. G. Durmish'yan (lately deceased), reported on reactions of the animal organism to small doses of ionizing radiation. The attempt of developing conceptions of the radiosensitivity of animal organisms and systems to functional criteria was of principal importance in this report. N. N. Livshits et al. examined the time factor in reactions of the nervous system to irradiation with small doses. V. P. Godin showed that radiation strongly affects the rate of processes taking place in the nervous system. V. I. Kandror reported on the state of the sympathetic

Card 2/4

Effect of small doses...

doses may differ according to the rate of regeneration the state of the compensation processes, etc.

Card 4/4

ENGEL'GARDT, V.A., akad., glav. red.; KUZIN, A.M., zam. glav. red.; NUZHDIN, N.I., red.; ALIKHANYAN, S.I., doktor biol. nauk, red.; SHAPIRO, N.I., kand. biol. nauk, red.; KOCHERGZHKIN, V.G., kand. biol. nauk, red.; ARSEN'YEVA, M.A., red. izd-va; PRUSAKOVA, T.A., tekhn. red.

[Radiation genetics] Radiatsionnaia genetika; sbornik rabot. Moskva, Izd-vo Akad.nauk SSSR, 1962. 367 p. (MIRA 15:5)

1. Akademiya nauk SSSR. Otdeleniye biologicheskikh nauk.
2. Chlen-korrespondent Akademii nauk SSSR (for Kuzin, Nushdin).
3. Institut biologicheskoy fiziki Akademii nauk SSSR, Moskva (for Kuzin).
(Genetics) (Radiation--Physiological effect)

KUZIN, A.M., glav. red.; GEL'FAND, I.M., red.; LIVANOV, M.N., red.; GERSHUNI, G.V., doktor med. nauk, red.; KHURGIN, Ya.I., doktor fiz.-matem. nauk, red.; KOCHERGZHKIN, V.G., kand. biol. nauk, red.; GURFINKEL', V.S., red. izd-va; POLENOVA, T.P., tekhn.red.

[Biological aspects of cybernetics]Biologicheskie aspekty kibernetiki; sbornik rabot. Moskva, Izd-vo Akad. nauk SSSR, 1962. 237 p. (MIRA 16:1)

1. Akademiya nauk SSSR. Nauchnyy sovet po kompleksnoy probleme "kibernetika." 2. Chlen-korrespondent Akademii nauk SSSR (for Kuzin, Gel'fand, Livanov).

(CYBERNETICS)

KOCHETEZHKIN, V.G.

Session of the general assembly of the Department of Biological Sciences of the Academy of Sciences of the U.S.S.R. Izv.AN SSSR. Ser.biol. no.6:948-950 N-D '62. (MIRA 16:1)
(BIOLOGICAL RESEARCH)

KOCHEREZHKIN, V.G., kand. biologicheskikh nauk

Cybernetics and biology. Zhivotnovodstvo 24 no.6:82-84 Je '62. (MIRA 17:3)

KOCHEREZHKIN, V.G.

Session of the Department of Biological Sciences of the Academy of Sciences of the U.S.S.R. on the biological aspects of cybernetics. Izv.AN SSSR.Ser.biol. 27 no.4:644-647 Jl-Ag '62. (MIRA 15:9)
(INFORMATION THEORY IN BIOLOGY--CONGRESSES)

KOCHEREZHKIN, V.G.; POZDNYAKOVA, Z.V.

Achievements of biological science in the service of agriculture. Izv. AN SSSR. Ser. biol. 28 no.1:126-133 Ja-F'63. (MIRA 16:8)

1. Otdeleniye biologicheskikh nauk AN SSSR.
(AGRICULTURAL RESEARCH)

KOCHEREZHKIN, V.G.

For the further development of biological science and its better implementation in practice. Izv. AN SSSR Ser. biol. 28 no.4:613-620 Jl-Ag'63 (MIRA 16:11)

1. Otdeleniye biologicheskikh nauk AN SSSR.

SISAKYAN, N.M., akademik, glav. red.; ROSTOVTSEV, N.P., akademik, zam. glav. red.; BUKIN, V.N., zasl. deyatel' nauki i tekhniki RSFSR, doktor biol. nauk, zam glav. red.; MOZGOV, I.Ye., akademik, red.; KRASIL'NIKOV, N.A., red.; RAKITIN, Yu.V., red.; OVSYANNIKOV, A.I., red.; SHMANENKOV, N.A., doktor sel'khoz. nauk, red.; SAVEL'YEV, I.K., kand. sel'-khoz. nauk, red.; KOCHERZHKIN, V.G., kand. biol. nauk, red.; MIKHLIN, E.D., ved. red.; KOLPAKOVA, Ye.A., red. izd-va; KYLINA, Yu.V., tekhn. red.

[Problems of increasing the use of chemicals in animal husbandry; using biologically active preparations] Voprosy khimizatsii zhivotnovodstva; primenenie biologicheski aktivnykh preparatov. Sbornik rabot. Moskva, Izd-vo AN SSSR, 1963. 303 p. (MIRA 17:1)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina. 2. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Rostovtsev, Mozgov). 3. Chlen-korrespondent AN SSSR (for Krasil'nikov, Rakitin). 4. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Ovsyannikov).
(Stock and stockbreeding—Feeding and feeds)
(Agricultural chemistry)

KOCHKREZHKIN, V.O.

Use of chemical substances and biologically active preparations in animal husbandry. Izv. AN SSSR. Ser. biol. no.6: 924-928 N-D '63. (MIRA 17:2)

KOCHEREZHKIN, V.G.

Problems of chemicalization in animal husbandry. Izv. AN SSSR Ser. biol. 28 no.5:768-774 S-O'63 (MIRA 16:11)

*

KOCHEREZHKIN, V.G.

Biological studies at the Annual Assembly of the Departments of the Academy of Sciences of the U.S.S.R. Izv. AN SSSR. Ser. biol. no.3:482-489 My-Je '64. (MIRA 17:5)

KOCHERGZHKIN, V.O.

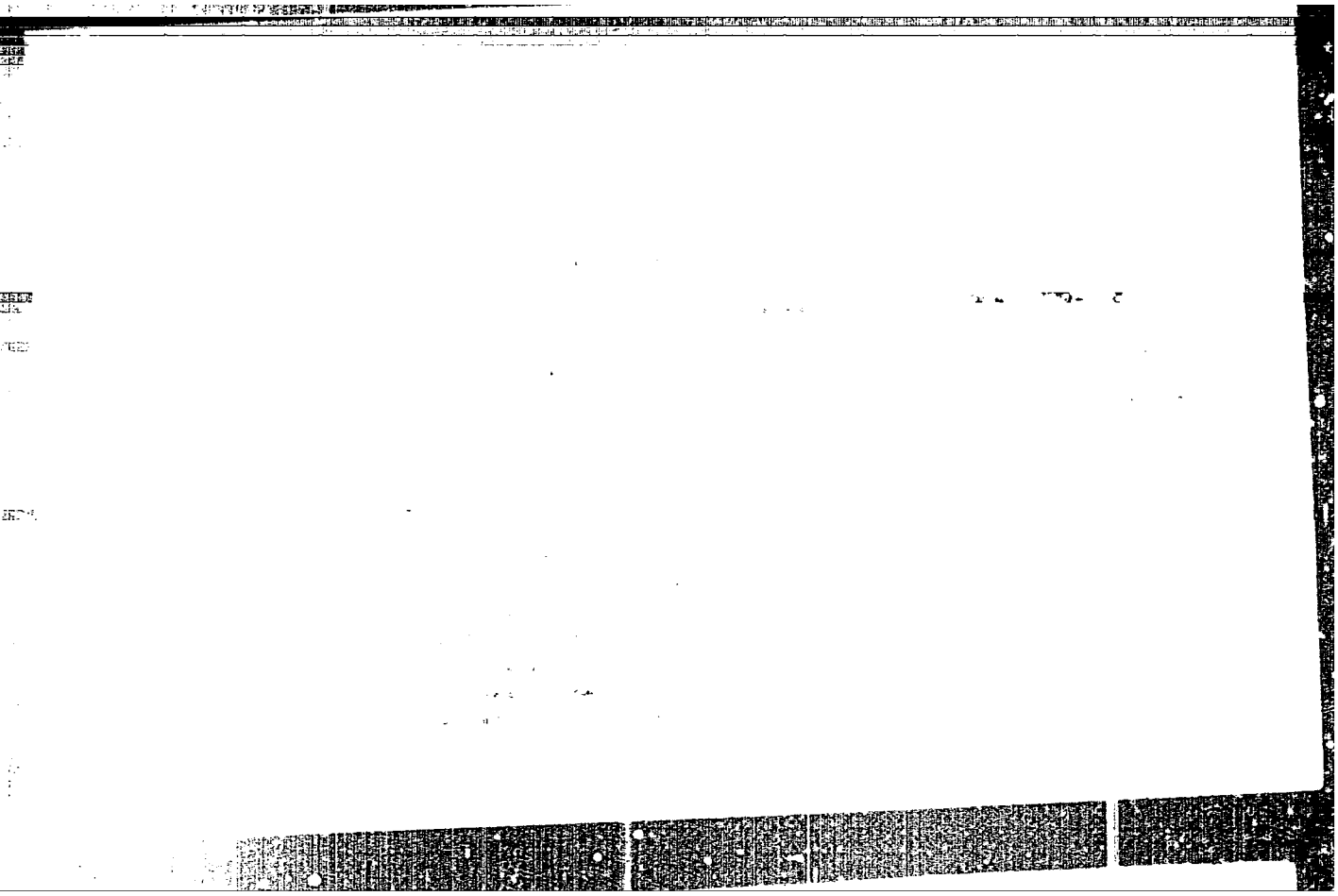
Session of the General Assembly of the Academy of Sciences of the U.S.S.R. Izv. AN SSSR. Ser. biol. no.3:490-492 My-Je '64. (MIRA 17:5)

KOCHERGZHKIN, V.G.

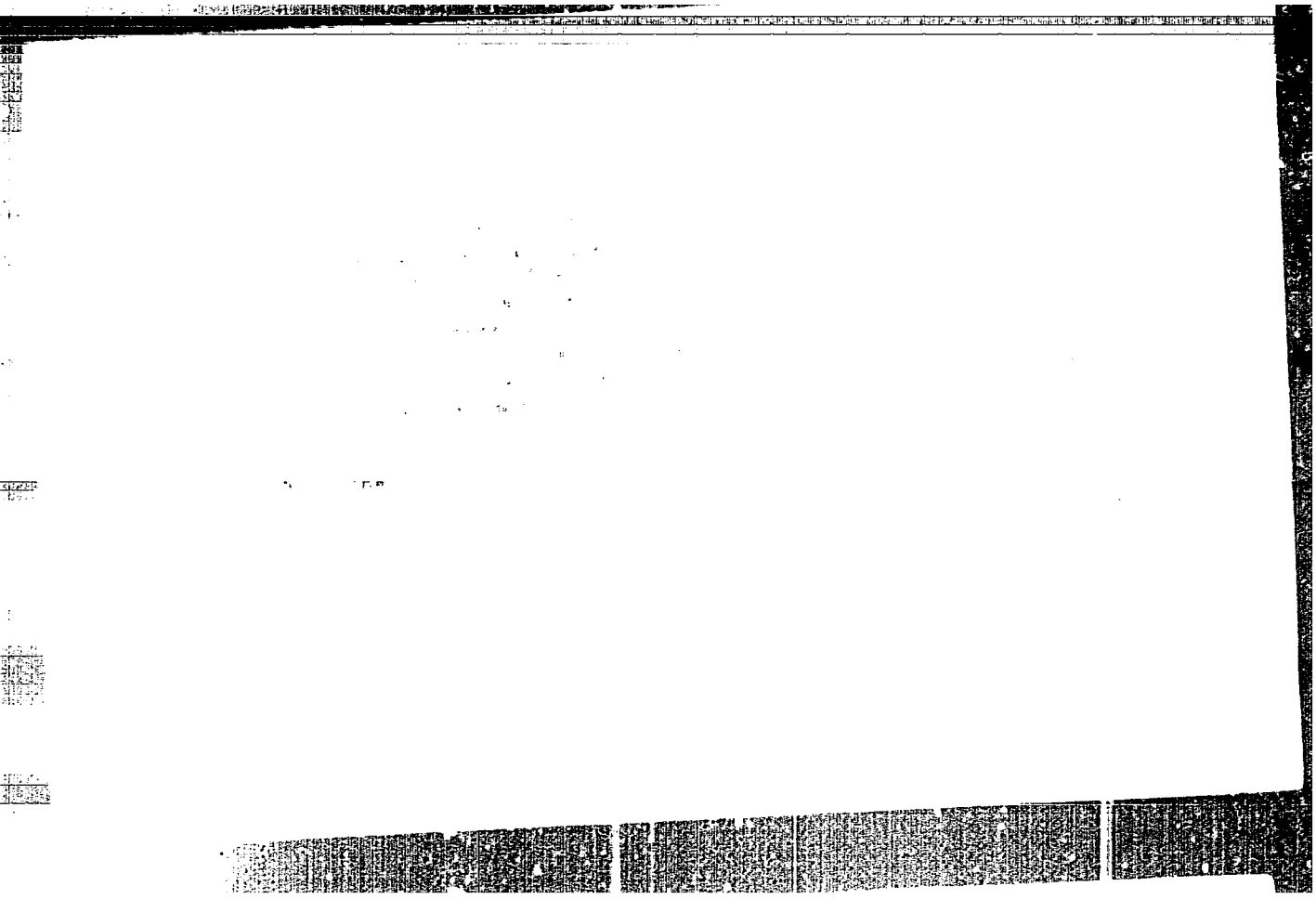
For closer ties between biological science and practice. Izv. AN SSSR Ser. biol. 29 no.1:164-171 Ja-F'64 (MIRA 17:3)

KOCHEREZHKIN, V.G.

Achievements of biology and chemistry for the national economy.
Izv. AN SSSR. Ser. biol. no.5:779-788 S-O '64. (MIRA 17:9)



APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510002-1"



KOCHETKOV, V.G.

New members of the Academy of Sciences of the U.S.S.R. Izv. AN SSSR. Ser. biol. no.6:933-936 N-D '64.

Problems of molecular biology. Ibid.:936-941 (MIRA 17:11)

KOCHERZHKIN, V.G.

State and development of studies on problems in the physiology and biochemistry of micro-organisms. Agrokhimiia no.4:[illegible]165 Ap '64. (MIRA 17:10)

KOCHETKIN, V.G.

Results and objectives. Prikl. biokhim. i mikrobiol. 1 no.3: 358-362 My-Je '65. (MIRA 18:7)

KOCHEREZHKIN, V.G.

Present state and development of the studies on photosynthesis. Izv. AN SSSR. Ser. biol. no.2:298-303 Mr-Ap '65. (MIRA 18:4)

KOCHEREZHKIN, V.G.

More important results of 1964 and future development of the scientific research on problems of biology. Izv. AN SSSR.Ser.biol. no.3:448-458 My-Je '65.

Control measures against the cotton wilt. Ibid.:463-466 (MIRA 18:5)

L 1397-66 EWA(j)/EWT(m)/EWA(b)-2 RM
ACCESSION NR: AP5017768 UR/0216/65/000/004/0593/0599

AUTHOR: Kocherezhkin, V. G.

TITLE: Present state and outlook for development of scientific studies on "plant physiology and biochemistry" and "chemical regulators in plant cultivation and chemical means of plant protection"

SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 4, 1965, 593-599

TOPIC TAGS: biologic conference, biologic personnel, plant physiology, plant chemistry, biochemistry, plant disease control

ABSTRACT: This is a report on a meeting of the General Conference of the Departments of Biochemistry, Biophysics and Chemistry of Physiologically Active Compounds of the AN SSSR, which took place at the end of March, 1965. Papers are summarized and the names of personnel and organizations specifically concerned with certain studies are mentioned. A. L. Kursanov delivered the main address on the specific features of modern plant physiology and biochemistry.

Card 1/2