"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, N.L.; CHEREDNICHENKO, N.G.

Estimating the plasticity of double-T joints in microparts made by resistance welding. Avtom.svar. 18 no.11:44-47 N '65. (MIRA 18:12)

1. Moskovskoye vysshaya tekhnicheskoye uchilishcho im. Baumana. Submitted September 9, 1964.

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L 33489-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/T/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(1)

ACC NR: AP6012282 JD/HM/EM SOURCE CODE: UR/0125/65/000/011/0044/0047

AUTHOR: Kaganov, N. L.; Cherednichenko, N. G.

ORG: MVTU im. Bauman

TITLE: Evaluation of the plasticity of the resistance-welded cross joints of miniaturized electronic components

SOURCE: Avtomaticheskaya svarka, no 11, 1965, pp 44-47

TOPIC TAGS: resistance welding, spot welding, electronic component, plasticity, test stand

ABSTRACT: Joints of this kind often display low plasticity, which causes their premature fracture. Since the existing test methods are not always suitable for quantitatively evaluating the plasticity of these joints, the authors suggest a new method of such evaluation which takes into account not only the shear stresses but also the bending stresses acting on these joints, with special reference to the highest-stressed sectors of the spot-welded cross joints for which no reliable test method has previously existed. The principle of the new test method is as follows: a torque is exerted on one of the finished components with respect to the weld zone, under a constant load (constant tensile stress), with recording of the angle of rotation at

Card 1/4 UDC: 621.791.763:539.214

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which the joint fractures. To this end, component 1 of the weldment (Fig. 1,a) is

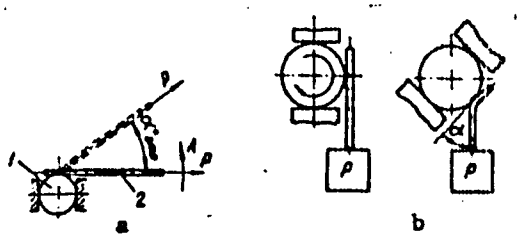

Fig. 1. Schematic representation of the fracture-angle tests of cross joints under static loading:

a - first version; b - second version

clamped between the sponge tips of a specially designed setup (Fig. 2), while at the same time a constant tensile stress P is applied to component 2 of the same weldment, causing it to smoothly revolve about the weld zone in the direction of arrow A until

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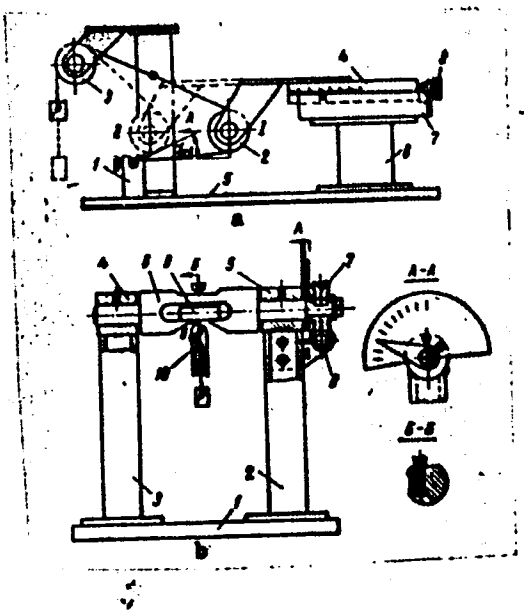

Fig. 2. Schematic representation of the devices for determining the fracture angle under static loading:

a - first version; b - second version

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KAGANOV, S.A.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

AID P - 4856

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 16/26

Authors : Besser, M. R. and S. A. Kaganov

Title : Automation of the counterboring of openings in separators of roller bearings.

Periodical : Stan. i instr., 27, 2, 36-38, F 1956

Abstract : The reconstruction of the TO-100 turning lathe used for semi-automatic production of brass separators in roller bearings into a fully automatic machine for counterboring the openings in separators of roller-bearings is described and illustrated by the authors. Six drawings.

Institution : None

Submitted : No date

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV S.A.

39-4-7/9

AUTHOR: KAGANOV S.A. (Ufa)

TITLE: The Geometry of a Space With a Singular Hyperareal Metric (Geometriya prostranstva s singulyarnoy giperareal'noy metrikoy)

PERIODICAL: Mat.Sbornik, 1957, Vol. 42, Nr.4, pp.497-512 (USSR)

ABSTRACT: The author investigates the spaces with a hyperareal metric which firstly have been investigated by Cartan in occasion of the foundation of the Lobachevskiy-prize (1940) and then by Vagner [Ref.1]. Most of the author's results were already announced [Ref.5]. Only the necessary Legendre-condition and the expression for the second variation of the hypersurfacearea of an extremal hypersurface in the space with a singular hyperareal metric seem to be new.
Six Soviet and 2 foreign references are quoted.

SUBMITTED: May 7, 1956
AVAILABLE: Library of Congress

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

YABLONSKIY, V.S.; KAGANOV, S.A.

Couette flow considering the effect of temperature and internal friction on viscosity. Izv. vys. ucheb. zav.; neft' i gaz no. 5:57-65 '58. (MIRA 11:8)

1. Ufimskiy neftyanoy institut.
(Hydrodynamics)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, S.A.; YABLONSKIY, V.S.

Profile of rates of the laminar flow of viscous fluids considering friction heat and change in the viscosity factor resultant from temperature. Izv. vys. ucheb. zav.; neft' i gaz 3 no.1:85-92 '60. (MIRA 14:10)

1. Ufimskiy neftyanoy institut.
(Laminar flow) (Viscosity)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

39227
S/207/62/000/003/016/016
1028/1228

24.4300

AUTHOR: Kaganov, S. A. (Saratov)

TITLE: On the steady laminar flow of an incompressible liquid in a plane duct and a circular cylindrical pipe, taking into account the heat of friction and the dependence of the viscosity on the temperature

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1962, 96-99

TEXT: The differential equations determining the velocity and temperature along the stream section are integrated for the case of a general law of dependence of the viscosity on the temperature. The function used by most authors:

$$1/\mu = 1 + \alpha T/\mu_0$$

where μ = the viscosity; T = the temperature; μ_0, α = characteristic constants of the liquid, is replaced by the general function $1/\mu = \varphi(T)$. Three cases are examined: $\lim_{T\to\infty} \varphi(T)/T = 0$; $\lim_{T\to\infty} \varphi(T)/T = R > 0$; $\lim_{T\to\infty} \varphi(T)/T = +\infty$. It is found that in the first case a steady motion exists for any pressure gradients, and arbitrarily high temperatures can be obtained by increasing idenfinitely the pressure gradient. In the second case, arbitrarily high temperatures are obtained by increasing the pressure gradient to some finite value, characteristic of the given liquid; for gradients above this critical value steady motion is not possible. In the third case there also

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, S.A.; LEVINTER, M.Kh.; MEDVEDEVA, M.I.

Kinetics of asphaltene coking. Khim.i tekh.topl.i masel 7 no.7:38-43 Jl '62. (MIRA 15:9)
(Asphaltenes) (Carbonization)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

S/207/63/000/001/021/028
E202/E420

AUTHOR: Kaganov, S.A. (Saratov)

TITLE: Stationary theory of spontaneous thermal ignition

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no.1, 1963, 133-135

TEXT: The above problem is formulated by studying the boundary problem viz

$$\Delta T + \varphi(T) = 0, \quad T\Big|_{\Gamma} = 1 \qquad (1)$$

which takes place in a region G bounded by a surface Γ; the function $\varphi(T)$ defines the velocity of the reaction in relation to temperature. The problem considered is the determination of the dimensions of G in which Eq.(1) has a solution. It is shown that with relatively simple calculations it is possible to assess the critical dimensions of flat, cylindrical and spherical vessels for sufficiently general $\varphi(T)$. Each of the above vessels' geometries are studied, the flat one on the basis of

$$\frac{d^2T}{dx^2} + \varphi(T) = 0, \quad T\Big|_{x = \pm h} = 0 \qquad (2)$$

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the cylindrical one using

$$\frac{1}{r}\frac{d}{dr}\left(r\frac{dT}{dr}\right) + \varphi(T) = 0, \qquad T\Big|_{r=R} = \frac{dT}{dr}\Big|_{r=0} = 0 \quad (8)$$

and the spherical one in the same way as the cylindrical but substituting different critical value of R_0 which is defined in this case from the following

$$2.44 \max_T \sqrt{\frac{T}{\varphi(T)}} \leqslant R_0 \leqslant 6.88 \max_T \sqrt{\frac{T}{\varphi(T)}} \quad (12)$$

It is stressed that for sufficiently small regions Eq.(1) has always a solution.

SUBMITTED: November 10, 1962

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proceeds according to A. [illegible]

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art. has: 25 formulas. [PS]

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of preheated gas mixtures. However, the heat losses through the [illegible]
a marked effect on the combustion process. A theoretical study was made of the
[illegible] the effect of injector velocity on the dom-

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, S.A.

Liquid flow between rotating coaxial cylinders making allowance for heat of friction and the temperature dependence of viscosity. Inzh.-fiz. zhur. 8 no.3:307-310 Mr '65.

(MIRA 18:5)

1. Ekonomicheskiy institut, Saratov.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

[illegible]

[illegible]

[illegible]

[illegible] Kaganov, [illegible] Garatov

TITLE: The theory of flame propagation

SOURCE: Prikladnaya matematika i mekhanika, v. 29, no. 2, 1965, 337-342

TOPIC TAGS: combustion, combustion instability, flame propagation, deflagration detonation transition, explosion

[illegible] can be analyzed by considering the [illegible]

[illegible]

$$\frac{\partial T}{\partial t} = d^2 \frac{\partial^2 T}{\partial x^2} - F(T),$$

where F(T) is a function characterizing the heat release during com-

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, S.A. (Saratov)

Nonstationary theory of thermal self-combustion. PMTF no.1:62-67 Ja-F '65. (MIRA 18:8)

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a marked effect on the combustion process. A [illegible]
radial temperature distribution to show the effect of injector walls on the com-
bustion stability. Linearization of the nonlinear F(T) function in the previously

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, SA.A. (Saratov)

Theory of propagation of a flame. Prikl. mat. i mekh. 29 no.2:337-342 Mr-Ap '65. (MIRA 18:6)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

11900

S/122/60/000/011/016/020
A161/A127

AUTHORS: Besser, M. R., Kaganov, S. L., Engineers

TITLE: Investigation of the polishing process when using a paste and copper brushes for polishing of internal cylindrical surfaces

PERIODICAL: Vestnik mashinostroyeniya, no. 11, 1960, 73,- 74

TEXT: In series and large-series production, internal grinding with longitudinal feed of hardened alloy steel parts provides usually a surface finish with a fineness of the 7 th grade according to the ГОСТ 2789-59 (GOST 2789-59) standard. Obtaining of the 8th grade involves a considerable increase of production costs. To extend the life of gliding surface, in particular those of roller bearing races, a surface finish with a fineness of the 9th grade should be achieved. Corresponding investigations and tests have been conducted at the ЗГПЗ (ZGPZ) Plant where a new finishing method has been developed; polishing with the М-28 (M-28) paste and copper wire brushes made from copper wire, measuring 0.25 - 0.30 mm in diameter. Copper wire is cut into lengths, exceeding somewhat that of the required diameter of the brush, arranged in a proper layer around

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the circumference of a tube, which in turn is inserted into a cup to facilitate proper arrangement of the wire bundle. Then, the wires are tied together with a thin metal string and bent to form the U-shaped brush, which is fixed in a mandrel and tightened by a nut (Figures 1 and 2). The polishing process is carried out on an internal grinder (Figure 3) with the part chucked in a membrane chuck and the grinding disc replaced by the copper brushes prepared in the above mentioned manner. When adjusting the grinding machine, the brush is set at the workpiece with the cross feed being slightly tightened. The paste, diluted in spindle oil "2" is applied to the part on one spot with a hair brush. The part and the brush rotate in opposite directions with simultaneous reciprocating of the brush. Wear of the brush is compensated by additional periodical moving of the cross feed. The tests were carried out in the roller bearing department of the 30PZ Plant. For the measurement of the fineness grade of the surface finish the ЧАМАН (Chaman) profilometer attached to the twin МИС-11 Линник (MIS-11 Linnik) microscope and the МИИ-1 (MII-1) interference microscope have been used. Outer ball bearing races, made from ШХ-15 (ShKh-15) steel and hardened to the HRC 60-64 hardness class were selected as specimens for the polishing tests. A total

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of 60 tests were made. During testing all parameters remained unchanged except under investigation for which 3 values have been chosen. The following initial parameters have been selected: diameter of the part to be polished: D_p = 173.5 mm; diameter of the brush: D_{br} = 165 mm; fineness of the grinding finish of the parts used: 7; circumferential velocity of the brush: v_{br} = 31 m/sec; circumferential velocity of the part to be polished: v_p = 103 m/min; number of double motions of the brush: a = 100; polishing time: T = 12 sec. The following test results were achieved: 1) polishing with the paste and copper brushes resulted in an increase of the fineness by two grades and a stable obtaining of the 9th grade was ensured. 2) the internal surface of the hollow part was enlarged in the range of up to 0.02 mm. 3) taper and ovality of the hole was not changed by the polishing process. 4) changes of the number of the double motions of the brush (a) and of v_p of the part did not effect the surface finish. 5) increase of v_{br} within the ranges 21 - 41 m/sec improved somewhat the surface finish; it is, however, recommended not to increase the rpm of the brush beyond 4,000, since this could result in dangerous vibrations of the grinding spindle and damage of the same owing to the unbalanced state of the brush. 6) Extending the polishing period of time from 9 to 15 sec improves the surface finish within

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25098

Investigation of the polishing S/122/60/000/011/016/020
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the range of 1 grade, an increase of the polishing time beyond 30 sec would result in excessive heating of the bearing race and should therefore be avoided. 7) it is possible to polish 2,500 parts with one brush until it is completely used up by wear. On the basis of these tests the following working parameters for the polishing of internal surface of hardened alloy steel parts are recommended: v_E = 80 m/min; a = 60 double motions/min; v_{br} = 40 m/sec (with not more than 4,000 rpm of the grinding spindle) and $T_{polishing}$ = 15 sec. There are 6 figures.

Figure 1:

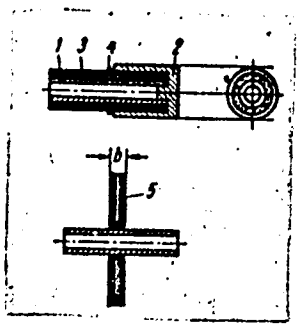
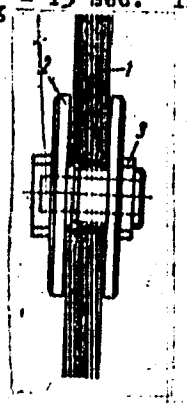


Figure 2:



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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAG[illegible]OV, S. Yu

"Assimilation of Fat by Children During the First Year of Life." Cand Med Sci, State Sci-Res Pediatrics Inst, Moscow, 1953. (RZhBiol, No 3, Dec 54)

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

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, S.Yu. (Moscow)

Organization of feeding for inmates of children's homes. Med.sestra no.2:7-10 F '54. (MLRA 7:1)

1. Nauchnyy sotrudnik Gosudarstvennogo nauchno-issledovatel'skogo pediatricheskogo instituta Ministerstva zdravookhraneniya RSFSR.
(Children--Nutrition) (Children--Institutional care)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, S.Yu., kandidat meditsinskikh nauk (Moscow)

Cod liver oil in the diet of healthy children. Fel'd. i akush. no.10:29-32 O '55. (MIRA 8:12)

(COD-LIVER OIL)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KARACHEVTSEVA, V.N.; KAGANOV, S.Yu.

Seventh All-Union Congress of Pediatricians. Vop.okh.mat. i det. 3 no.1:80-83 Ja-F '58. (MIRA 11:2)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo pediatricheskogo instituta, Moskva.
(PEDIATRICS)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, S.Yu., kand.med.nauk

Course of chronic pneumonia accompanied by bronchial asthma in preschool and school children. Vop.okh.mat. i det. 3 no.6:28-32 N-D '58 (MIRA 11:12)

1. Iz klinicheskogo otdela (zav. - doktor med.nauk Ye.D. Belyayeva Gosudarstvennogo nauchno-issledovatel'skogo pediatricheskogo instituta (dir. kand.med.nauk V.N. Karachevtseva) Ministerstva zdravookhraneniya RSFSR.

(PNEUMONIA)
(ASTHMA)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, S.Yu.; BELYAYEVA, Ye.D.; PEN, R.M.; DOGEL', N.V.; MIZIKRNITSKAYA, O.N.; KARMINOVA, Z.A.

Some problems in the pathogenesis, clinical aspects, and treatment of bronchial asthma in children. Vop.okh.mat. i det. 4 no.4:46-50 Jl-Ag '59. (MIRA 12:12)

1. Iz klinicheskogo otdela (zav. - dotsent N.P. Savvatimskaya) Gosudarstvennogo nauchno-issledovatel'skogo pediatricheskogo instituta (ispolnyayushchiy obyazannosti direktora - kand.med.nauk A.P. Chernikova, zamestitel' direktora po nauchnoy chasti - prof. N.R. Shastin).
(ASTHMA)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, S.Yu.; MIZERNITSKAYA, O.N.; MAKAROV, I.V.

Review of S.G. Zviagintseva's "Bronchial asthma in children." Pediatriia 37 no.10:90-91 O '59. (MIRA 13:2)
(ASTHMA) (ZVIAGINTSEVA, S.G.)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, S.Yu.; KARMINOVA, Z.A.

Development of pyopneumothorax in a child during an asthmatic attack. Vop. okh. mat. i det. 6 no.10:88-90 O '61. (MIRA 14:11)

1. Iz klinicheskogo otdela (zav. - dotsent N.P.Savvatimskaya) Nauchno-issledovatel'skogo pediatricheskogo instituta (ispolnyayushchiy obyazannosti direktora - doktor meditsinskikh nauk A.P.Chernikova, zamestitel' direktora po nauchnoy chasti - prof. N.E.Shastin).
(ASTHMA) (PNEUMOTHORAX) (EMPYEMA)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, S.Yu. (Moskva)

Chronic pneumonia in children. Fel'd. i akush. 26 no. 1:15-21 Ja '61. (MIRA 14:2)

(PNEUMONIA)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, S.Yu.

Anaphylactic shock after the administration of antitetanus and antidiphtheria sera to children with bronchial asthma. Pediatriia 41 no.5:76-80 My '62. (MIRA 15:5)

1. Iz kliniki dlya detey starshego vozrasta (zav. S.Yu. Kaganov) Gosudarstvennogo nauchno-issledovatel'skogo instituta pediatrii Ministerstva zdravookhraneniya RSFSR (dir. - kand.med.nauk V.F. Spirina).
(ASTHMA) (DIPHTHERIA ANTITOXIN--TOXICOLOGY)
(TETANUS ANTITOXIN--TOXICOLOGY) (ANAPHYLAXIS)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

DEYEVA, M.M.; DOGEL', N.V.; KAGANOV, S.Yu.; LEONT'YEV, V.Ya.

Late results of the hospitalization of children with chronic nonspecific pulmonary diseases in sanatoria on the southern Crimean shore. Pediatriia 41 no.9:57-62 S '62. (MIRA 15:12)

1. Iz kliniki dlya detey starshego vozrasta (zav. S.Yu. Kaganov) Gosudarstvennogo nauchno-issledovatel'skogo pediatricheskogo instituta (dir. - kand.med.nauk V.P.Spirina) Ministerstva zdravookhraneniya RSFSR.

(LUNGS--DISEASES)

(CRIMEA--HEALTH RESORTS, WATERING-PLACES, ETC.)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, S.Yu.; MAKAROV, I.V.; PEDANOVA, V.M.

Significance of congenital bronchopulmonary cysts in the development and course of chronic pneumonia in children. Pediatriia 41 no.9:77-81 S '62. (MIRA 15:12)

1. Iz kliniki dlya detey starshego vozrasta (zav. S.Yu.Kaganov) i rentgenologicheskogo otdela (zav. - prof. N.A.Panov) Nauchno-issledovatel'skogo pediatricheskogo instituta (dir. - kand.med. nauk V.P.Spirina) Ministerstva zdravookhraneniya RSFSR.
(PNEUMONIA) (CYSTS)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, S.Yu.; LEONT'YEV, V.Ya.; EL'BERG, Ye.I.; KHARINA, Z.K.

Expansion of bronchial asthma among children. Sov. med. 27 no.8:38-41 Ag '64. (MIRA 18:3)

1. Klinika dlya detey starshego vozrasta (zav.- kand. med. nauk S.Yu. Kaganov) i otdel organizatsii detskogo zdravookhraneniya (zav.- kand. med. nauk G.S. Gracheva, nauchnyy konsul'tant - prof. A.G. TSeytlin) Nauchno-issledovatel'skogo pediatricheskogo instituta (dir.- kand. med. nauk V.P. Spirina) Ministerstva zdravookhraneniya RSFSR, Moskva.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, V. I., CAND TECH SCI, "TRANSIENT CONDITIONS IN CERTAIN SYSTEMS OF AUTOMATIC frequency and alignment CONTROL OF ~~AND~~ TUNED CIRCUITS." MOSCOW, 1960. (MIN OF COMMUNICATIONS USSR, MOSCOW Electrical Engineering ~~ELECTROTECH~~ INST OF COMMUNICATIONS). (KL, 3-61, 216).

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

S/142/60/000/01/011/022
E140/E463

AUTHOR: Kaganov, V.I.

TITLE: Transient Processes in Automatic Tuning Control Employing Ferrite and Transistor

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1960, Nr 1, pp 100-105 (USSR)

ABSTRACT: Author's abstract: Formulae are derived for calculating the transient duration for an automatic tuning control (consisting of ferrite and transistor) to tune a circuit to the frequency of an input signal in a circuit with phase discriminator. The equation for the transient is solved by Chaplygin's approximate method permitting estimate of the error of calculation. There are 4 figures and 4 Soviet references.

SUBMITTED: March 11, 1959, initially,
June 23, 1959, after revision

JB

Card 1/1

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

83258

S/109/60/005/009/003/026
E140/E455

6.9400

AUTHORS: Kaganov, V.I. and Nemirovskiy, N.S.

TITLE: Effects of Interference on an Automatic-Frequency-Control System. Pt.I

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol.5, No.9, pp.1380-1386

TEXT: Two types of noise are considered in the AFC circuit: external noise, acting from the side of the calibrated oscillator; internal noise, varying the natural frequency of the stabilized oscillator. In the circuit discussed, it is assumed that the centre frequency of the discriminator is great in comparison with the width of signal spectrum at the mixer output. Two AFC systems are examined. In one the passband of the IF filter is substantially broader than the signal spectrum at the mixer output; in the other the reverse is true. The discriminator is considered to have an ideal limiter and to give an output-voltage proportional to the instantaneous frequency at the input, while the control element is a linear inertialess device. For the system with broad IF filter, three cases are considered: 1) external interference harmonic, and calibrated signal harmonic;

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83258

S/109/60/005/009/003/026
E140/E455

Effects of Interference on an Automatic-Frequency-Control System. Pt.I

2) external fluctuation noise, and harmonic calibrated signal; 3) internal fluctuation noise. For the narrow IF filter the process of stabilizing the frequency in the AFC system is assumed slow, so that the dynamic and static characteristics of the IF filter may be taken as identical. The case of fluctuation noise in both the external and internal circuits is considered. There are 2 figures and 6 references: 5 Soviet and 1 English.

SUBMITTED: December 12, 1959

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAPLANOV, Murad Rashidovich; LEVIN, Viktor Aronovich; Prinimali uchastiye: KAGANOV, V.I.; NEMIROVSKIY, M.S.; MOZHZHEVELOV, E.N., red.; LARIONOV, G.Ye.G., tekhn. red.

[Automatic frequency control]Avtomaticheskaia podstroika chastoty. Izd.3., dop. Moskva, Gosenergoizdat, 1962. 319 p. (MIRA 15:9)

(Frequency regulation) (Radio)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

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KAGANOV, Vil'yam Il'ich; LEVIN, V.A., kand. tekhn. nauk, red.

[Radio transmitters with small and medium power output; their theory and design] Radioperedatchiki maloi i srednei moshchnosti; teoriia i raschet. Moskva, Energiia, 1964. 279 p. (MIRA 17:12)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

L 8348-66 EWP(c)/EWP(k)/EWT(d)/EWT(m)/EWP(h)/EWP(b)/EWP(i)/EWP(v)/EWP(t) JD

ACC NR: AP5025757 SOURCE CODE: UR/0286/65/000/018/0121/0121

AUTHORS: Kaganov, L. B.; Kaganov, V. L.; Finkler, S. Ye.
44,55 44,55 44,55

ORG: none

TITLE: Device for automatically advancing the electrode-instrument during electrochemical machining of holes. Class 49, No. 174935
44,55 18

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 121

TOPIC TAGS: electrochemical machining, electrode, METAL MACHINING

ABSTRACT: This Author Certificate presents a device for automatically advancing the electrode-instrument during electrochemical machining of holes with pressurized electrolyte supply. The device consists of a cylindrical body with the electrode-instrument moving axially inside the body (see Fig. 1). To simplify construction and to provide continuous electrode-instrument advance during the hole machining, the electrode-instrument is spring-loaded in the axial direction. Its front end is closed by a dielectric disk held on a shoulder with openings for the electrolyte, while its back end is closed by a throttling disk.

UDC: 621.9.047
621.3.035.2-589.33

Card 1/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

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L 8348-66

ACC NR: AP5025757

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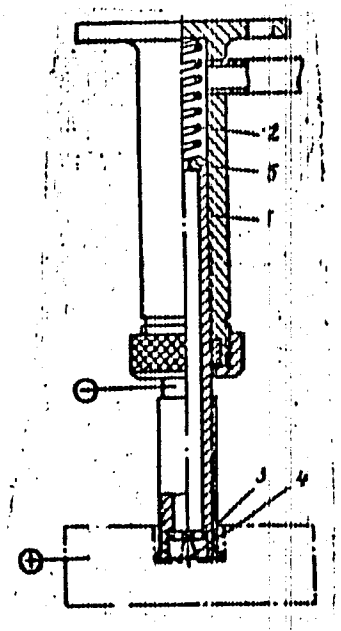

Fig. 1. 1 - electrode-instrument; 2 - spring; 3 - dielectric disk; 4 - shoulder; 5 - throttling disk.

Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 21Jan63

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

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KAGANOV, V. M.

"I. M. Poliakov. The Course of Darwinism." (p. 228) by Kaganov, V. M.

SO: Journal of General Biology (Zhurnal Obshchey Biologii) Vol. III, No. 3, 1942.

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KAGANOV, V. M.

24875. KAGANOV, V. M. Russkiye Evolyutsionisty Dodarvinovskogo Perioda. Estestvoznaniye V Shkole, 1949, No 4, S. 34-40.

SO: Letopis' No. 33, 1949

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KAGANOV, V. M.

"I. M. Sechenov, a great innovator in biology. On the occasion of the 120-th anniversary of his birth.(1829-1949)" by Kaganov, V. M. (p. 349)

SO: Journal of General Biology (Zhurnal Obshchei Biologii) Vol. X, No. 5, 1949

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KAGANOV, V.M.

"I.V. Stalin And Progressive Biological Science." (p.3) by V.M. Kaganov

SO: Journal of General Biology (Zhurnal Obshchei Biologii) Vol. XI, 1950, No. 1

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KAGANOV, V.M.

"In Favour Of A Creative Development Of Pavlov's Progressive Physiology" (p.241) by V.M. Kaganov

SO: Journal of General Biology (Zhurnal Obshchei Biologii) Vol. XI, 1950, No. 4

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[illegible], I. F.

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Michurin biology and its role in overcoming religious vestiges, Moskva, "Znanie", 1952

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

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[illegible], V. N.

Pavlov, Ivan Petrovich, 1849-1936

Philosophical significance of Pavlov's teachings. Nauka i zhizn' 19 No. 6, 1952

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KAGANOV, V.M.

Some philosophical and theoretical problems in the teachings of Michurin. Zhur. ob. biol. 16 no.5:321-332 S-O '55. (MLRA 9:3)

(BIOLOGY--PHILOSOPHY) (PLANT BREEDING)

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KAGANOV, V.M.

I.M.Sechenov's teaching and the theory of organic evolution.
Izv.AN SSSR. Ser.biol. no.2:39-49 Mr-Ap '56. (MLRA 9:7)
(SECHENOV, IVAN MIKHAILOVICH, 1829-1905)
(EVOLUTION)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

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KAGANOV, V.M., redaktor; KUZNETSOV, I.V., redaktor; PLATONOV, G.V., redaktor; FATALIYEV, KH.M., redaktor; SMOLYAN, G.L., redaktor izdatel'stva; NOVIKOVA, S.G., tekhnicheskiy redaktor

[Some philosophical problems in natural science] Nekotorye filosofskie voprosy estestvoznaniia. Moskva, 1957. 415 p. (MLRA 10:4)

1. Akademiya nauk SSSR. Institut filosofii.
(Physics—Philosophy) (Biology--Philosophy)

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KAGANOV, V.M., kandidat filosofskikh nauk

V.I. Lenin on the importance of dialectical materialism for the development of natural science. Nauka i zhizn' 24 no.4:1-3 Ap '57. (MLRA 10:5)

(Dialectical materialism) (Natural history)
(Lenin, V.I.)

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SECHENOV, Ivan Mikhaylovich [deceased, 1829-1905]; KAGANOV, V.M., red.

[Selected works] Izbrannye proizvedeniia. Izd.2. Moskva, Uchpedgiz, 1958. 412 p. (MIRA 13:9)
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DVORYANKIN, F.A.; KAGANOV, V.M.; PLATONOV, G.V.; FEYGINSON, M.I.; FUKSMAN, A.Ye.; FILIPPOV, L.A., red.; YERMAKOV, M.S., tekhn. red.

[Philosophical problems in natural history] Filosofskie voprosy estestvoznaniia. [Moskva] Izd-vo Mosk. univ. Vol.1. [Philosophical and theoretical problems in Michurin's theories] Filosofsko-teoreticheskie voprosy michurinskogo ucheniia. 1958. 421 p.
(Michurin, Ivan Vladimirovich, 1855-1935) (MIRA 11:10)
(Biology--Philosophy)

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LADYGINA-KOTS, Nadezhda Nikolayevna; KAGANOV, V.M., otv.red.; SHEMYAKIN, F.I., otv.red.; ROGINSKIY, Ya.Ya., otv.red.; GELLERSHTEYN, S.G., red.izd-va; SHEVCHENKO, G.N., tekhn.red.

[Constructive and implement-using behavior in higher apes (chimpanzees)] Konstruktivnaia i orudiinaia deiatel'nost' vysshikh obez'ian (shimpanze). Moskva, Izd-vo Akad.nauk SSSR, 1959. 398 p. (MIRA 13:1)

(Chimpanzees) (Animal intelligence)

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KAGANOV, V.M. (Moskva)

V.I.Lenin and philosophical problems in modern biology. Bot. zhur. 44 no.6:747-758 Je '59. (MIRA 12:11)
(Science--Philosophy) (Genetics)

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KAGANOV, Vsevolod Mikhaylovich

[Struggle of materialism andidealism in modern biology] Bor'ba materializma i idealizma v sovremennoi biologii. Moskva, Znanie, 1960. 45 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.8, Biologiia i meditsina, no.17) (MIRA 14:8)

(BIOLOGY—PHILOSOPHY)

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GLUSHCHENKO, I.Ye., otv.red.; GUZHEV, Yu.L., red.; KAGANOV, V.M., red.; KUSHNER, Kh.F., red.; NUZHDIN, N.I., red.; PLATONOV, G.V., red.; FEYGINSON, N.I., red.izd-va; BRUZGUL', V.V., tekhn.red.

[Darwinism lives and develops; transactions of the jubilee conference dedicated to the 100th anniversary of the publication of C.Darwin's "Origin of species" and the 150th anniversary of the publication of J.Lamarck's "Philosophy of zoology," Nov.19-21, 1959] Darvinizm zhivet i razvivaetsia; trudy iubileinoi konferentsii, posviashchennoi 100-letiiu opublikovannia "Filosofii zoologii" Zh.Lamarka, 19-21 noiabria 1959 g. Moskva, 1960. 217 p. (MIRA 14:2)

1. Akademiya nauk SSSR. Institut genetiki.
(Evolution--Congresses)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, V.M.; FURMAN, A.Ye.; IGNATOV, A.I.; PLYUSHCH, L.N.; SHOROKHOVA, Ye.V.; YUROVAYA, I.L.; PLATONOV, G.V., red.; SUKHOV, A.D., red.izd-va; RYLINA, Yu.V., tekhn.red.; LAUT, V.G., tekhn.red.

[The problem of causality in modern biology] Problema prichinnosti v sovremennoi biologii. Moskva, 1961. 191 p. (MIRA 14:2)

1. Akademiya nauk SSSR. Institut filosofii.
(CAUSATION) (BIOLOGY-PHILOSOPHY)

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Letters to the editor. Bot. zhur. 46 no.11:1726-1727 N '61.
(MIRA 15:2)

1. Institut filosofii AN SSSR, Moskva.
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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, V.M.

Twenty Second Congress of the CPSU and some problems of biological research. Zhur. ob. biol. 23 no.1:3-11 Ja-F '62. (MIRA 15:3)
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KAGANOV, V.M.

New stage in the development of biology. Biol. v shkole no.2:7-10 Mr-Ap '63. (MIRA 16:4)

1. Institut filosofii AN SSSR, Moskva.
(Biological research)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

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"From a Compilation of Studies."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

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OPARIN, A.I., akademik; STUDITSKIY, A.N., prof.; NAUMOV N.P., prof.; KOVAL'SKIY, V.V.; YUROVA, I.L., dots.; PLATONOV, G.V., prof.; KAGANOV, V.M.; FURMAN, A.Ye., dots.; MEDVEDEV, N.V., prof.; YAKIMOV, V.P., kand. biol. nauk; ZHUKOV-VEREZHNIKOV, N.N.; BONDARENKO, P.P., prof.; MAYSKIY, I.N., prof.; TRIBULEV, G.P., dots.; TSAREGORODTSEV, G.I., dots.; DOBROKHVALOV, V.P., kand. biol. nauk; YAZDOVSKIY, V.I., prof.; VIKTOROVA, V., red.; CHEREMNYKH, I., mlad. red.; ULANOVA, L., tekhn. red.

[Studies on the dialectic of living nature] Ocherk dialektiki zhivoi prirody. Moskva, Sotsekgiz, 1963. 527 p. (MIRA 16:12)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Koval'skiy).
2. Deystvitel'nyy chlen AMN SSSR (for Zhukov-Verezhnikov).
(Biology--Philosophy)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, V. Yu. Cand. Tech. Sci.

Dissertation: "Investigation of a System of Automatic Temperature Control." Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov, 14 Mar 47.

SO: Vechernyaya Moskva, Mar, 1947 (Project #17836)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, V.Yu.

Conditions today and prospects for automatizing the operation of heating equipment in the refractories industry. Ogneupory 18 no.3:116-128 '53. (MIRA 11:10)

1.TSentral'naya laboratoriya avtomatiki Energochermeta.
(Refractories industry--Equipment and supplies)
(Automatic control) (Kilns)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

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KAGANOV, V.Yu.

[redacted]

Conference on automatization of production processes in ferrous metallurgy. Priborostroenie no.9:27-28 S '56. (MLRA 9:10)

(Automatic control) (Metallurgical plants)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

ADABASH'YAN, A.K.; KAGANOV, V.Yu.

Automatization of blast and open-hearth furnaces. Priborostroenie no.10:6-8 O '56. (MLRA 9:12)
(Automatic control) (Blast furnaces) (Open-hearth furnaces)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

Kaganov, V. Yu.

[illegible]

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, V. Yu.
and
LEVITAN, S. A.,

"Electromechanical Model of a Thermal Object for the Study of Automatic Regulation Systems," pp 309-319, ill

Abst: A model, an analog of a heated object, consisting of a delay link and two detecting inertia links, has been developed. Besides investigating the automatic regulation, this model can be utilized for investigating the regulating systems operating on the principle of continuous regulation, as well as for executing other problems.

SOURCE: Trudy Moskovskogo Energeticheskogo I -ta im. V. M. Molotova MVO SSSR (Works of the Moscow Energetics Institute imeni, V. M. Molotov of the Ministry of Higher Education USSR), No 18 Electric Vacuum Technology and Instrument Building, Moscow-Leningrad, Gosenergoizdat, 1956.

Sum 1854

Chair Theoretical Electrotechnics & Cent. Lab Automation
Min Ferrous Metallurgy SSSR

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

YEFROYMOVICH, Yu. Ye., KAGANOV, V. Yu., CHELYUSTKIN, A. B. and KOPAY-GORA, P. N.

"The Use of Computation Apparatus for the Control of Basic Objects in Metallurgy (furnaces, arc furnaces, rolling Mills)"

Cent. Lab for Automation.

report presented at the Conference on Automation and Computation Engineering Moscow, 5-8 March 1957. Organized by AU Sci. Eng. and Tech. Society for Apparatus Building.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, V.Yu., referent

Electric control of heating shafts. Biul.TSNIICHM no.17:54-57 (325) '57. (MIRA 11:4)

(Electric control)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

SOV/112-59-17-36907

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 17, p 159 (USSR)

AUTHOR: Kaganov, V.Yu.

TITLE: Application of Computers for Automation of the Blast Furnace Process

PERIODICAL: V sb.: Avtomat. upravleniye i vychisl. tekhn. Moscow, Mashgiz, 1958, pp 310-320

ABSTRACT: In the "Azovstal'" Plant computers determine the carbon consumption per ton of cast iron, the output of the blast furnace per minute, and the amount of the ore charge per tuyere in a feeding. The computer represents a combination of multi-arm bridge circuits with an automatic balancing. The results of the computation are registered on the graphs of the devices. A possibility of an application of computers for selection of optimum operational conditions of the blast furnace is provided for. The computation error is ± 2% compared with analytical calculations. TsLA worked out a system of complex automation of a blast furnace with the application of computers for regulating hot blast conditions and thermal conditions of the furnace, and controlling the rotating distributor and charging system.

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SOV/112-59-17-36907

Application of Computers for Automation of the Blast Furnace Process

TsNII of ferrous metallurgy designed a device "Foreman's Adviser" for the automatic regulation of the furnace according to the technological instruction. There are 5 illustrations.

N.M.F.

Card 2/2

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

SOV-25-58-7-34/54

AUTHOR: Kaganov, V.Yu. and Tsfasman, S.B., Scientific Contributors of the Central Automation Laboratory of the "Energochermet" Trust

TITLE: Chemical Analysers (Khimicheskiye analizatory)

PERIODICAL: Nauka i zhizn', 1958, Nr 7, p 4 of inner fold and p 65 (USSR)

ABSTRACT: Visitors to the Soviet pavilion at the Brussels World Fair were attracted by the electronic self-writing polarograph - an instrument automatically recording the nature and concentration of substances in solutions. The automatic polarograph, developed by the engineers A.S. Benevol'skiy and S.B. Tsfasman (co-author of this article), can find out the smallest admixtures in pure metals; carry out rapid analyses of ores, alloys, petroleum- and gas by-products; investigate hormones, vitamins and medicines; determine unhealthy substances in atmosphere and distinguish organic isomers. The polarograph can produce usual and high-speed polarograms.

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Chemical Analysers

SOV-25-58-7-34/56

Other means of polarographic analyses to be developed, will assist scientists to study chemical reactions, to carry out permanent control of substance concentrations. There is 1 technical drawing.

ASSOCIATION: Tsentral'naya laboratoriya avtomatiki tresta "Energochermet" (Central Automation Laboratory of the "Energochermet" Trust)

1. Solutions--Chemical analysis 2. Polarographic analysis --Applications 3. Polarographic analysis--Equipment

Card 2/2

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, V.Yu., referent

Automatic control of air distribution in blast furnace tuyeres(from "Blast Furnace and Steel Plant" no. 9, 1957). Stal' 18 no. 6:504-505 Je '58. (MIRA 11:7)

(Blast furnaces)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, V.Yu., kand.tekhn.nauk

Ultrasound in the blast furnace. Nauka i zhizn' 25 no.5:65 My '58. (MIRA 11:5)

(Ultrasonic waves--Industrial applications)
(Blast furnaces)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

KAGANOV, V.Yu., kand. tekhn. nauk

The magnet attracts oxygen. Nauka i zhizn' 25 no.6:65- 66 Je '58. (MIRA 11:8)

(Metallurgical furnaces)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

PLEVAKO, Boris Matveyevich. Prinimal uchastiye TOLSTOPYATOV, K.S., KAGANOV, V.Yu., red.; VAGIN, A.A., red.izd-va; DOBUZHINSKAYA, L.V., tekhn.red.

[Temperature control and the introduction of automatic control of thermal processes in heating furnaces] Kontrol' temperatury i avtomatizatsiia teplovoi raboty nagrevatel'nykh pechei. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 165 p. (MIRA 13:2)
(Furnaces, Heating) (Thermocouples) (Automatic control)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

SOV/133-59-1-5/23

AUTHOR: Kaganov, V.Yu., Candidate of Technical Sciences

TITLE: Automation of Open-hearth Furnaces in the USSR (Avtomatizatsiya martenovskikh pechey v SSSR)

PERIODICAL: Stal', 1959, Nr 1, pp 16 - 24 (USSR)

ABSTRACT: Work on automation of controls for the operation of open-hearth furnaces began in the USSR in 1938. During the last 5 years, 90% of steel was smelted in furnaces supplied with automatic-control systems which, on average, brought the following economy: fuel - about 5%; increase in output - 5 to 8% and a decrease in the consumption of refractories by 8 to 10%. However, the introduction of basic refractories, use of oxygen and a general improvement in the organisation and technology of production permitted a higher intensity of heating and the automatic systems developed earlier became inadequate. Some new developments in the automation of open-hearth furnaces are discussed under the following headings. A) Control of thermal load. At present, the work on the development of new methods of controlling thermal load is being carried out in three directions: 1) programme controlling of thermal load; 2) control with the maximum supply of heat limited by the maximum permissible temperature of

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refractories, throughput capacity of gas and air flues and other factors limiting increases in thermal loads, and 3) the use of calculated parameters or criterial relationships as impulses for the control of thermal load. These directions do not exclude each other but represent successive stages in the automation.
B) Control of combustion. C) Control of pressure in the working space of the furnace. D) Automatic control of flame reversion. E) Automatic control of oil-fired furnaces. After discussing in some detail experience gained with equipment used in the Soviet Union, it is concluded that although dependable and quick response electrohydraulic and electronic instruments are available, it is necessary to develop a method of controlling the thermal load, based on theoretical considerations. In addition, methods for sampling combustion products, continuous measurements of the temperature of the metal and the combustion products, measurements of gas and oil consumption should be improved.

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SOV/133-59-1-5/23

Automation of Open-hearth Furnaces in the USSR

There are 6 figures and 6 Soviet references.

ASSOCIATION: Trest "Energochermet" ("Energochermet" Trust)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

SOV/25-59-1-30/51

AUTHOR: Kaganov, V.Yu., Candidate of Technical Sciences

TITLE: Isotopes in the Blast Furnace (Izotopy v domne)

PERIODICAL: Nauka i zhizn', 1959, No 1, p 65 and 4 of centerfold (USSR)

ABSTRACT: The achievements of modern physics in the field of radioactive isotopes and nuclear radiation made it possible to control the smelting process of pig iron. The new methods are applied for studying the movements of the furnace charge. Radioactive isotopes are introduced together with the charge into the blast furnace. The marked material passes through a number of radiation detectors which record the appearance of the isotopes in their respective zones. The speed of the movement of the furnace charge can be determined according to the rate of the growing radioactivity in the different zones. Radioactive

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SOV/25-59-1-30/51

Isotopes in the Blast Furnace

isotopes can also be used for the determination of the level and the distribution of the material in the blast furnace. There is one diagram.

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9(2) SOV/25-59-7-25/53

AUTHOR: Kaganov, V.Yu., Candidate of Technical Sciences

TITLE: The Electrons Analyze

PERIODICAL: Nauka i zhizn', 1959, Nr 7, pp 65-66 (USSR)

ABSTRACT: The article describes a new electronic machine for the registration of parameters of a blast furnace operation developed by Engineer V.A. Likhachev at the Tsentral'naya laboratoriya avtomatiki chernoy metallurgii (Central Automation Laboratory of Ferrous Metallurgy). Its design is similar to that of a "MARS"-type (for Mashina Avtomaticheskoy Registratsii, Signalizatsii = machine for automatic registration and signaling) installed at the Zavod "Krasnyy Bogatyr'" ("Krasnyy Bogatyr'" Plant) where it controls 48 vulcanization operations. The 1st-mentioned electronic machine is a high-speed unit (Figure 1) able to register 40 parameters of a blast furnace operation by figures printed on a single chart to which a punched card is

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The Electrons Analyze

added. The specifications of this machine are: voltage range of transformed impulses - 0 to 10 v; capacity of the cadence generator - 100,000 impulses per second; digital system - 3-digit system; accuracy - 0.1%; registration period - 20 seconds. There is 1 full-page color drawing.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8

GLINKOV, M.A., doktor tekhn.nauk; MEN'SHIKOV, R.I., kand.tekhn.nauk; KAGANOV, V.Yu., kand.tekhn.nauk; SOLOMENTSEV, S.L., inzh.

Automatic control of thermal and technological conditions in open-hearth furnace smelting. Biul. TSIICHM no.10:23-28 '60. (MIRA 15:4)

(Open-hearth furnaces) (Automatic control)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920006-8"