Physical Metallurgy and Technology of Heat Treatment 841	
Kirpichnikov, K.S., Candidate of Technical Sciences, Docent. Rapid Ann of Semifinished Articles Cold-formed from D16 and AV (AK5) Aluminum-All.	ealing Ov
the author describes the results of applying new regimes of rapid annealing for heat-treated aluminum alloys. In addition, he outlined the principles of designing equipment for rapid annealing.	17
Vishnyakov, D.Ya.; Figel'man, M.A., Engineer; Trifonova, O.L., Engineer. Some Properties of EI659 Medium-Alloy Steel The author studies the effect of the degree of plastic deformation and the rate of cooling on the properties of this steel, tested at various temperatures. This type of steel contains small to moderate amounts of chromium, nickel, tungsten, and vanadium. There are 4 references, all Soviet.	, 34
Vishnyakov, D.Ya.; Vinitskiy, A.G., Candidate of Technical Sciences. A Study of the Wear Resistance of Carbon Steels	43
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Physical Metallurgy and Technology of Heat Treatment

Author's conclusions: 1. Carbon steels with a laminated pearlitic structure are more wear-resistant than steels with a granular pearlitic structure. 2. An increase in the amount of laminar pearlite results in a drop in the rate of wear, especially in hypocutectoid steels. There are 4 references, all Soviet.

Vishnyakov, D.Ya.; Vinitskiy, A.G. Effect of Structure on the Wear Resistance of Iron-Chromium-Carbon Alloys

Author's conclusions (in part): 1. An increase in the quantity of special carbides in annealed and hardened chrome steels increases their wear resistance. 2. A given quantity of cubic crystals of chromium carbide imparts greater wear resistance than the same quantity of trigonal carbides, other conditions being equal.

3. The relationship between wear resistance, hardness, and certain other mechanical properties of annealed chrome steels can be observed only within the limits of identical structures. There are 3 references, all Soviet.

Card 4/8

Physical Metallurgy and Technology of Heat Treatment 841	
Livanov, V.A., Candidate of Technical Sciences; Vozdvizhenskiy, V.M., Candidate of Technical Sciences. Recrystallization of Aluminum-Manganese Alloys The authors study the recrystallization process of aluminum-manganese alloys as affected by the amount of manganese in solid solution, the quantity and distribution of dispersed phases, and nomuniformity of chemical composition and structure. There are 18 references, of which 8 are Soviet, 8 English, and 2 German.	65
Livanov, V.A.; Vozdvizhenskiy, V.M. Effect of Addition Elements on the Solubility of Manganese in Aluminum The authors study the effect of small amounts of iron, silicon, and titanium on the solubility of manganese in aluminum. There are 15 references, of which 3 are Soviet, 8 English, and 4 German.	84
Wishnyakov, D.Ya.; Sovalova, A.A., Candidate of Technical Sciences, Docent; Smirnova, K.A. Mechanical Properties of Steels at Low Temperatures	100
Card 5/8	:

Sovalova, A.A.; Kornilova, Z.I., Engineer. Scale Resistance of Certain Nickel-Base Alloys The authors compare the scale resistance of three nickel-base alloys at various temperatures with that of an iron-base aircraft-construction alloy. Neustruyev, A.A., Candidate of Technical Sciences. Heat Exchange in Continuous Convection Furnaces Neustruyev compares uniflow and counterflow furnaces of the above type and concludes that preference should be given to the counter-flow	
Neustruyev compares uniflow and counterflow furnaces of the above type and concludes that preference should be given to the counter-flow	107
variety. There are 6 references, all Soviet.	113
Neustruyev, A.A., Candidate of Technical Sciences. Special Features of Heating Elongated Items of Aluminum Alloys in Convection Furnaces	129

Physical Metallurgy and Technology of Heat Treatment 841

The author discusses the special problems connected with the heat treatment, especially hardening, of elongated aluminum-alloy semifinished products (shapes, pipes, sheet, etc.), particularly such problems as maintaining constant temperature and the achievement of rapid and uniform heating. There are 5 references, of which 4 are Soviet and 1 is German.

Livanov, V.A.; Yelagin, V.I., Candidate of Technical Sciences. Investigation of AMg6 Heat-resistant Alloy with Additions of Iron and Nickel The author's investigation shows that small additions of iron (0.08-0.92%) and nickel (0.17-0.72%) do not improve the mechanical properties of AMg6 alloy (Al + 6% Mg) at elevated temperatures. There are 7 references, of which 5 are Soviet, l is English, and l German.

Livanov, V.A.; Yelagin, V.I. The Extrusion Effect at Elevated Temperatures
An investigation of the "extrusion effect" (increased strength as a
result of the extrusion process) in aluminum-magnesium alloys with
additions of chromium and manganese (together and separately) shows
Card 7/8

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Physical Metallurgy and Technology of Heat Treatment

that these alloys retain their increased strength even after cold drawing. It is further shown that the extrusion effect is preserved at elevated temperatures (300°C) and is observed both in the short-time strength test and in the long-time hardness test. There are 10 references, of which 8 are Soviet and 2 German.

Petrov, D.A., Professor, Doctor of Technical Sciences; Bukhanova, A.A., Candidate of Technical Sciences. Change in Shape and Recrystallization of Crystalline Substances During Solution and Growth in the Solid Phase The authors investigate the changes in crystalline structure which occur during the annealing of various alloys.

161

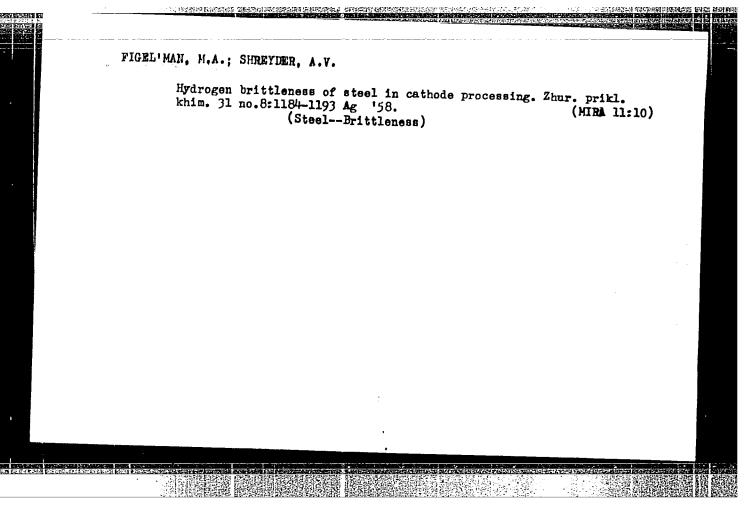
Kolachev, B.A., Candidate of Technical Sciences. The Effect of Chromium, Manganese, and Iron on the Natural Aging of Aluminum-Copper Alleya Results are given of an investigation of the effect of chromium, manganese, and iron on the aging of aluminum alloys containing a percent of copper. There are 9 references, of which are Soviet, 3 German, and 2 English.

172

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Card 8/8

GO/mas 11-28-58



VISHNYAKOV, D.Ya., prof., doktor tekhn.nauk; FIGEL'MAN, M.A., kand.
tekhn.nauk; HUTSKOVA, S.V., inzh.

Properties of lOKhl2NVMFA heat-resistant steel. Trudy MATI no.43:
(Steel alloys)
(Heat-resistant alloys)
(Heat-resistant alloys)

S/129/60/000/012/005/013 E193/E283

AUTHOR:

Figel'man, M. A., Candidate of Technical Sciences

TITLE:

Electro-Deposited Coatings on Constructional Steels

PERIODICAL:

Metallovedeniye i termicheskaya obrabotka metallov,

1960, No. 12, pp. 21-25

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TEXT: The object of the present investigation was to study the effect of electro-deposited zinc and cadmium coatings (applied singly or together) on the mechanical properties of steels 38%A (38KhA), 30X CA (30KhGSA), 18XHBA (18KhNVA) and IXI8H9T (1Kh18N9T). The standard test pieces, hardened and tempered, were zinc-plated in a cyanide electrolyte, the same type of electrolyte having been used for cadmium plating. The composite coatings were applied by first depositing a 3 micron thick cadmium coating and then a 3 micron thick layer of zinc. The thickness of zinc and cadmium coatings, when applied singly, was 6 microns. The mechanical tests included tensile tests and impact tests, carried out at room and elevated temperatures (200-700°C), as well as creep tests at high temperatures. It was established that cadmium or cadmium + zinc coatings, considerably reduce the ductility of steels studied at

Card 1/2

S/129/60/000/012/005/013 E193/E283

Electro-Deposited Coatings on Constructional Steels

temperatures above 200°C. The effect of zinc coating is much less pronounced. None of the coatings studied affects the impact strength of steel. The sensitivity of steel to the action of zinc or cadmium coating is independent of the mechanical properties of the steel, as determined by the conditions of preliminary heat treatment. Steel IKhl8N9T is sensitive only to the presence of a composite zinc + cadmium coating. A. P. Svetlovidov and V. N. Zav'yalov participated in this work. There are 4 figures, 2 tables and 2 references; 1 Soviet and 1 non-Soviet.

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413010019-2"

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4016, 1416, 1413

s/536/60/000/043/002/011

E193/E483

AUTHORS:

Vishnyakov, D.Ya., Doctor of Technical Sciences,

Professor, Figel'man, M.A., Candidate of Technical

Sciences and Rutskova, S.V., Engineer

TITLE:

Properties of the Heat-Resistant Steel 10X12HBM A

(10Kh12NVMFA)

PERIODICAL: Moscow. Aviatsionnyy tekhnologicheskiy institut.

Trudy. No.43. 1960, pp.25-37. Termicheskaya obrabotka

i svoystva stali i legkikh splavov

TEXT: The object of the present investigation was to study the effect of mechanical and thermal treatment on the properties of steel 10Kh12NVMFA which is a material combining relatively good corrosion resistance with high strangth at room and elevated temperatures. (The composition of this steel is such that it contains no free ferrite; since the strengthening alloying additions, i.e. W, Mo and V, increase the range of the α-phase, steels of this type contain no more than 12 to 15% Cr and 2% Ni.) The experiments were conducted on strip (2 mm thick), possessing the following properties: U.T.S. $(\sigma_b) = 67 \text{ kg/mm}^2$; Card 1/5

Properties of the Heat-Resistant ... \$\, 536/60/000/043/002/011

0.2 proof stress $(\sigma_{0.2}) = 47.3 \text{ kg/mm}^2$; elongation $(\delta) = 19.2\%$; depth of indentation in the Erichsen test = 11.4 mm; number of bending reversals through 180° = 9. were conducted on test pieces cut from the strip in the direction The tensile tests The high-temperature properties were determined by short-time tensile tests, carried out at a rate of strain of O.l. 1/min, where 2 is the gauge length of the test piece. the heat treatment experiments, the specimens were hardened by oil- or air-quenching; they were cooled in air after tempering. The fatigue tests were carried out on a machine operating at 1400 to 1500 rev/min, the duration of each test being 107 cycles. results can be summarized as follows. treatment of the steel studied consists in heating it to 900 to (1) The optimum heat 1000°C, quenching in air or oil, and tempering at 500 to 530°C. The mechanical properties of steel, heat treated in this way, are: σ_{0.2} = 105 kg/mm²; δ = 10%; Rc (Rockwell hardness) = 40. Secondary hardening takes place during tempering at 450 to 500°C but the plasticity of steel is not affected by this change. (2) The effect of temperature on the properties of steel 10Kh12NVMFA is illustrated in Fig.3, where δ and σ_b are

Properties of the Heat-Resistant ... E193/E483

plotted against the test temperature (°C), the continuous and broken curves relating to (a) hardened and tempered and (b) annealed specimens, respectively. (3) The steel under investigation work-hardens quite rapidly, its ob increasing to 100 kg/mm² and its & decreasing to 3.5% after 50% cold deformation in flat rolling, the mechanical properties of the steel at high temperatures (up to 600°C) being similarly affected. heat treatment (quenching from 900°C and 2 h tempering at 530°C) completely removes the effects of cold plastic deformation. (4) The effects of plastic deformation caused by various fabrication processes can be removed by intermittent annealing at 600 to 700°C. Annealing at higher temperatures is not possible because the steel is liable to harden even when cooled in air. is susceptible to stress-corrosion cracking. (5) Steel 10Khl2NVMFA This was shown by the results of metallographic examination and mechanical tests conducted on specimens, preliminarily heat treated or mechanically polished, and then immersed for 10 min to 10 h in a 50% HCl solution containing 1% of selenium dioxide. (6) Steel 10Kh12NVMFA has good fatigue properties at temperatures of up to 500°C. is illustrated in Fig.6, where the endurance limit $(\sigma_{-1}, kg/mm^2)$ Card 3/5

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Properties of the Heat-Resistant ... E193/E483



of hardened and tempered specimens is plotted against the test temperature (°C). Acknowledgments are expressed to Engineer V.N.Zav'yalov, who participated in this work. There are 6 figures and 4 tables.

Card 4/5

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31561 S/081/61/000/022/042/076 B102/B101

AUTHORS:

Shreyder, A. V., Figel'man, M. A.

TITLE:

Investigation of the hydrogen embrittlement of steel in

electroplating

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 22, 1961, 293 - 294, abstract 22K145 (Tr. Vseros. n-i. khim. in-ta prom-sti

mestn. podchineniya, no. 10, 1960, 33 - 85)

TEXT: The influence of cathodic polarization conditions in acid and alkaline solutions on the hydrogen embrittlement (HE) of carbon steel is pointed out. The kinetics of hydrogen adsorption and the HE of steel were studied. The stimulating action of cyanides and sulfides on hydrogen adsorption in cathodic polarization of steel in alkaline solutions was verified. Reduction of hydrogenation in cathodic treatment of tempered metal in acid media is achieved by adding CrO₃ to the electrolyte.

Additions to alkaline electrolytes do not reduce HE considerably. The strongest tendency to HE displays cold-deformed steel without subsequent annealing. This proves the predominant influence of the metal stress on Card 1/4

V.

31561 \$/081/61/000/022/042/076 B102/B101

Investigation of the hydrogen...

Card 2/4

the amount of HE. The increase in brittleness in electroplating is due to the presence of internal stresses in the deposits and to the hydrogen adsorption of the steel backing. The deposition of thin layers is accompanied by an increase in brittleness exceeding that of thick ones. The increase in brittleness is reduced with increasing thickness of the deposit. An intensification of the electrodeposition process may, on one hand, intensify the increase in brittleness due to decrease in current yield when the plating process is accelerated, and on the other - reduce the growth in brittleness due to a more rapid formation of deposit, serving as a barrier for the hydrogen penetration into the metal. Plating in cyanide electrolytes (zinc, cadmium, copper plating) is accompanied by considerably higher hydrogen adsorption than in acid ones. In acid baths the current yield is increased and cyanides intensifying hydrogen adsorption are absent. Nickel-plating leads to an increase in brittleness of tempered metal stronger than that of quenched metal. This is due to the predominant influence of stresses in the deposit. Any changes in chromium plating method, thickness of Cr deposit, dechroming conditions (anodic etching of chromium), interruptions of the current in chrome-plating have different effects on the brittleness of quenched and tempered steels. In

31561 S/081/61/000/022/042/076 B102/B101

Investigation of the hydrogen...

chrome-plating of tempered steels this is explained by a connection between increase in brittleness and the presence of internal stresses in the deposit - and for quenched steels it is assumed to be mainly due to hydrogenation of the backing. Electroplating results in a decrease of the fatigue limit, especially for quenched steel coated with nickel, then with chromium, zinc, and copper. The main effect on the recovery of plastic properties of steel after cathodic degreasing displays the temperature of the liquid medium in which dehydrogenation takes place; the effect of anodic aging is negligible. Electrolytic degreasing and dipping change the brittleness of steel in different directions which arises in subsequent metalplating in dependence on various factors, among which the structure of the basic metal is the most important one. Also shape and thickness of metal coatings and the conditions of electrodeposition have an influence: thin Cu and Ni backings reduce the brittleness arising in subsequent chrome-plating; thick Cu backings may intensify brittleness. Addition of oxidizers (CrOz, KMnOA) to acid

solutions is little effective with respect to a decrease in brittleness in electrolytic cathodic treatment of quenched metal, but reduces the increase in brittleness in etching (dip) without current. Increase of Card 3/4

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Investigation of the hydrogen...

31561 S/081/61/000/022/042/076 B102/B101

current yield, current reversal, and stirring do not reduce the brittleness of quenched steel, but reduce that of tempered steel. Aging restores the plastic properties only of parts which were subjected to cathodic treatment without galvanic deposition; after polarization in alkali, plasticity is restored more rapidly and more completely in aging than after polarization in acids. Aging of steel parts with deposits may also lead to an increase in brittleness. [Abstracter's note: Complete translation.]

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Card 4/4

VISHNYAKOV, D.Ya., doktor tekhn.mauk, prof.; FIGEL'MAN, M.A., kand.tekha.

nauk; NAZAROV, G.I., inzh.

IBothermal treatment of 13khl2NVFMA steel. Trudy MATI no.50:42-51
'61. (Steel--Heat treatment)

BELYAYEV, A.D. [Bieliaiev, A.D.]; FICEL'SKI, T.R. [Fibel's'ki, T.R.]

Trapping centers of minority current carriers in plastically deformed germanium. Ukr. fiz. zhur. 8 no.10:1179-1181 0 '63.

(MIRA 17:1)

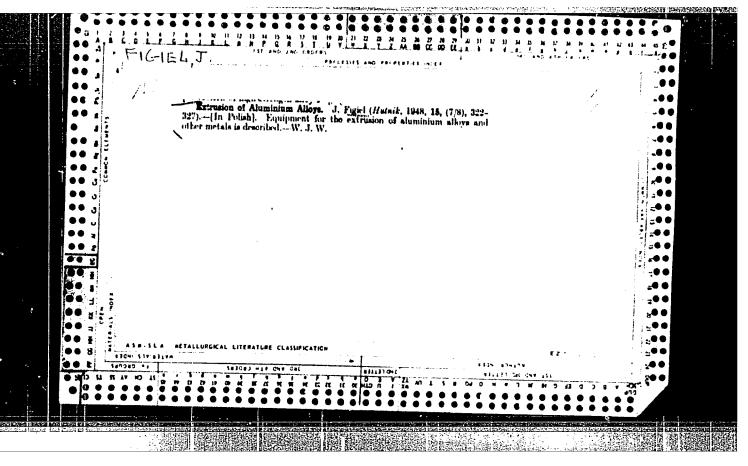
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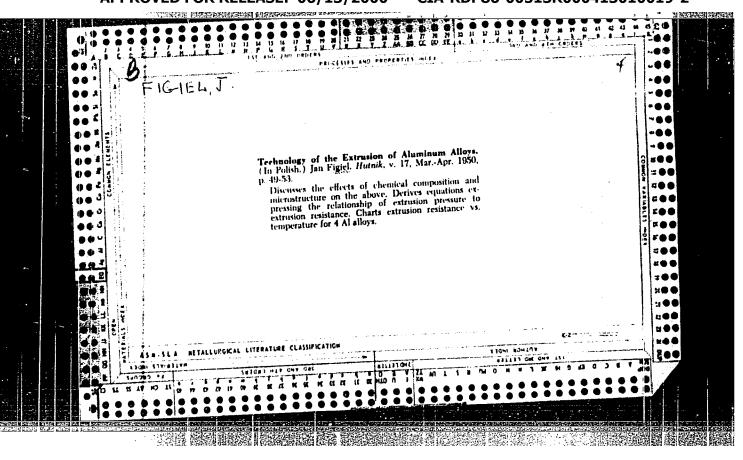
Figs. teki, T.R.; BEIYAYEV, A.H.

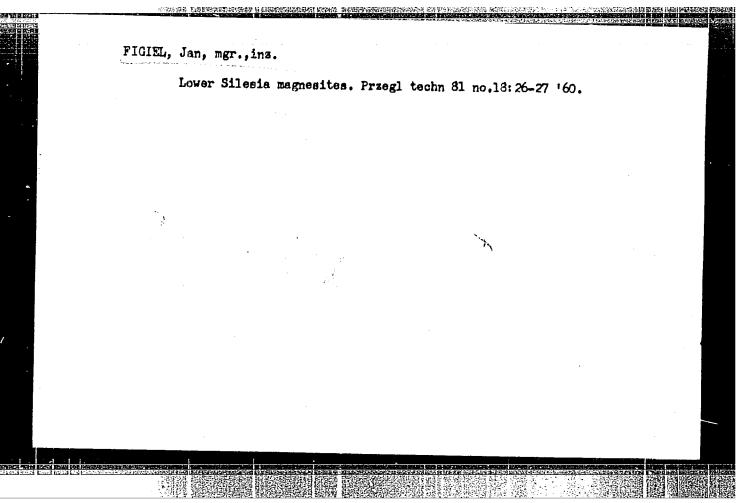
Capture of nonequilibrium current carriers in plastically deformed germanium. Fiz. tver. tela 6 no.722146-2154 J1 164.

2. Institut poluprovodnikov AN URrSSR, Klyev.

(MIRA 17:10)







ACCESSION NR: AP4041721

S/0181/64/006/007/2146/2154

AUTHORS: Figel'ski, T. R.; Belyayev, A. D.

CHARL DESIGNATION OF THE PROPERTY OF THE SECRETARIES

TITLE: Capture of non-equilibrium carriers in plastically deformed germanium

SOURCE: Fizika tverdogo tela, v. 6, no. 7, 1964, 2146-2154

TOPIC TAGS: dislocation effect, crystal imperfection, plastic deformation, germanium, recombination

ABSTRACT: In order to establish whether structural defects, and particularly dislocations, can serve as traps for the capture of non-equilibrium holes at low temperatures, a systematic investigation was made of capture in n-Ge in which excess dislocations were produced by plastic deformation. The results indicate that the trap concentration increases with decreasing temperature. The dislocation traps are capable of causing nonlinear photoconductivity

Card 1/3 -

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ACCESSION NR: AP4041721

effects. The principal results of the research were reported by the authors elsewhere (UFZh v. 8, 1179, 1963). The article describes the preparation of the specimens and the preliminary measurements, and relates how the presence of traps due to plastic deformation was demonstrated. It is shown that in addition to serving as the main traps with which the observed of long-time photoconductivity relaxation is associated, the dislocations act simultaneously as recombination centers. In deformed specimens they determine the lifetimes of electron-hole pairs. At considerable deformation, when the dislocation density exceeds $10^7~{\rm cm}^{-2}$, the capture of minority carriers (holes) is observed already at room temperature. It is concluded that the similarity between the capture phenomena in the deformed and initial specimens indicates that the traps have the same nature in both cases. "The authors thank Academician of AN UkrSSR V. Ye. Lashkarev, Ye. G. Miselyuk, and P. I. Baranskiy for interest and useful discussions." Orig. art. has: 5 figures and 6 formulas.

Card 2/3

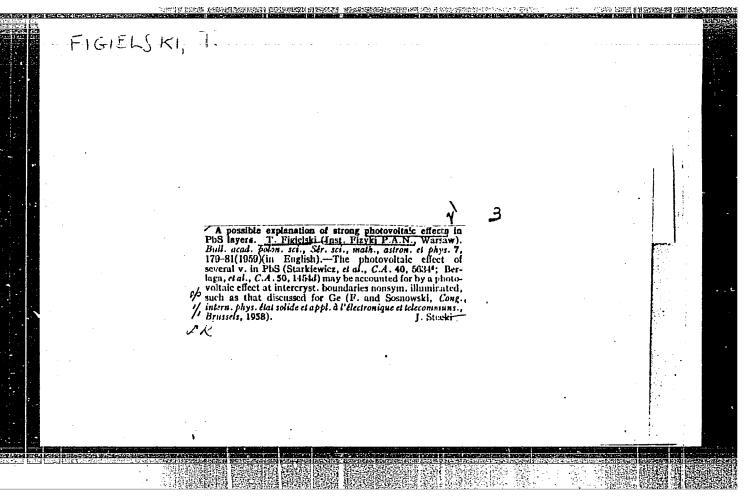
ACCESSION NR: AP4041721

ASSOCIATION: Institut poluprovodnikov AN UkrSSR, Kiev (Institute of Semiconductors, AN UkrSSR)

SUBMITTED: 20Jun63

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SUB CODE: SS NR REF SOV: 005 OTHER: 011



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- P/045/60/019/006/001/012 - B011/B0**59**

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Figielski, T.

TITLE:

Electronic Processes at Intercrystalline Barriers in

Germanium

PERIODICAL:

Acta Physica Polonica, 1960, Vol. 19, No.6, pp. 607 - 630

TEXT:: The author studied basic electronic effects occurring on grain boundaries (GB) of n-type germanium in the presence of injected minority carriers. The samples were cut from polycrystalline Ge ingots and had one plane of lineage each. In measuring the diffusion length, photo-e.m.f, and photoconductivity, the samples were illuminated at a point of 60 minimum diameter. Twin crystals were used in determining the diffusion curves by the Haynes-Morton method. Three cases were investigated:

1) the collector at some distance from the GB and the light spot moving perpendicular to the plane of lineage; 2) the collector near the GB and the light spot moving along the plane of lineage; 3) both collector and light spot far from the GB. Two kinds of diffusion curves were found for different GB. GB of the first kind are characterized by enhanced.—Card 1/3

Electronic Processes at Intercrystalline Barriers in Germanium

P/045/60/019/006/001/012 B011/B0**59**

recombination. GB of the second kind have no recombinative activity, but exhibit an intense photovoltaic effect and photoconductivity. The latter indicates current gain in the GB. X-ray studies support the assumption that GB of the first kind are related to simple small-angle lineages, whereas GB of the second kind are representative of lineages of wide angles. In the following discussion, GB is assumed to contain a number of acceptor-type quantum levels. The local negative charges resulting from electrons produce a potential barrier in the region of lineage. The electron current passing through the barrier is treated in analogy to the diode theory of the barrier layer. The hole current passing through GB is computed as in the case of n-p junction. The author concluded that GB can affect non-equilibrium carriers in two ways. In the case of a low barrier, recombination on GB predominates (GB of the first kind, with a dislocation structure being assumed). GB of the second kind shows a "feed-in-feed-out"effect consisting in the immediate expulsion of a hole from the barrier region for every incoming surplus hole. For this kind of GB, an n-p+-n structure (corresponding to a high potential barrier) is assumed. The author thanks Professor Doctor L. Sosnowski and M. Jastrzebska for discussions and assistance, Doctor J. Auleytner and M. Lefeld- Sosnowska for the X-ray studies, and W.Giriat for growing Card 2/3

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Electronic Processes at Intercrystalline Barriers in Germanium

P/045/60/019/006/001/012 B011/BC59

the crystals. There are 19 figures and 17 references: 1 Belgian, 1 Polish, 1 British, 4 German, and 8 US.

ASSOCIATION: Institute of Physics, Polish Academy of Sciences, Warszawa

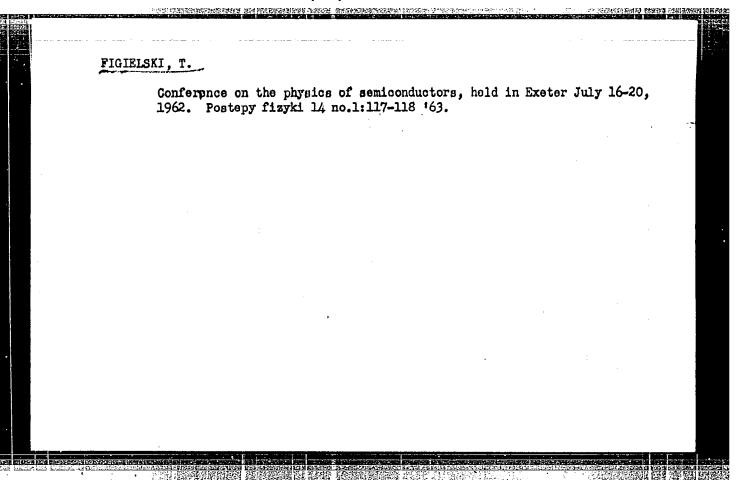
(Institute of Physics, Polish Academy of Sciences, Warsaw)

SUBMITTED:

February 1, 1960

Card 3/3

CIA-RDP86-00513R000413010019-2" **APPROVED FOR RELEASE: 06/13/2000**



POLAND

FIGIELSKI, Tadeusz; KUSNIERZ, Ryszard

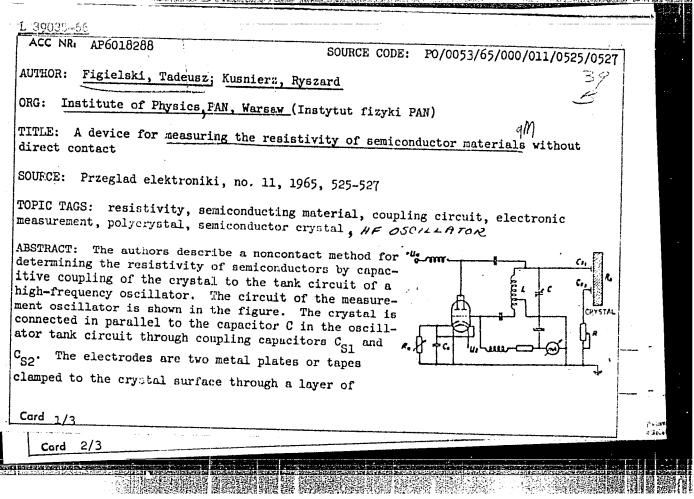
Institute of Physics, Polish Academy of Sciences (Instytut Fizyki PAN), Warsaw (for both)

Warsaw, Przeglad elektroniki, No 11, November 1965, pp 525-527

"Device for the contactless measurement of the resistivity of semiconductor materials."

"APPROVED FOR RELEASE: 06/13/2000

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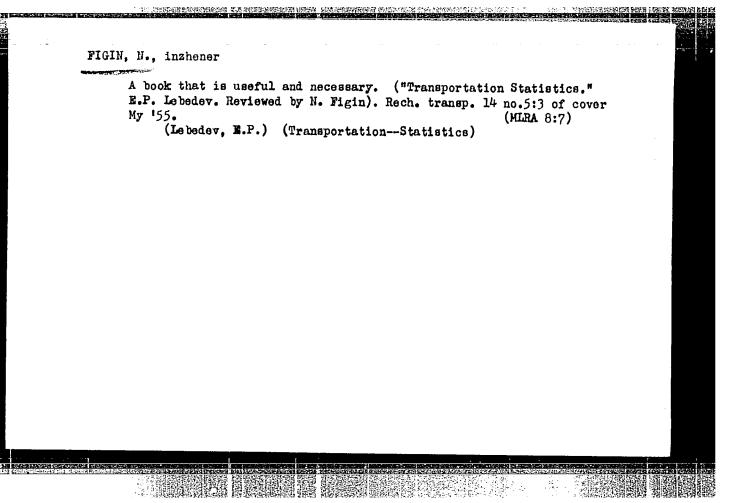
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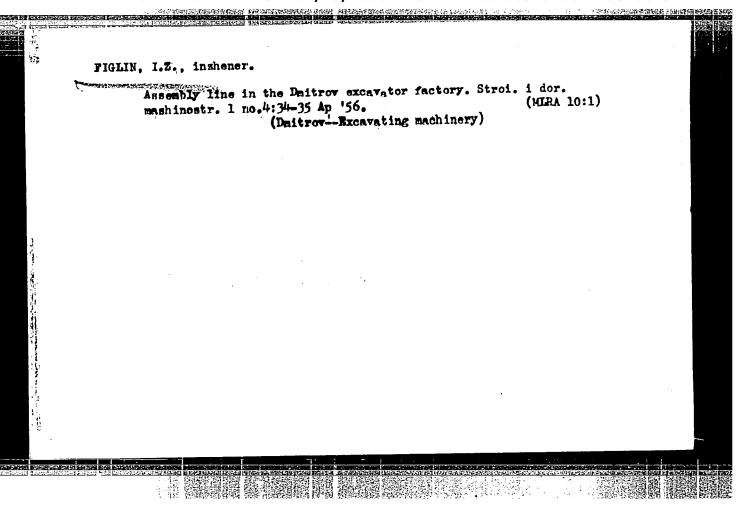
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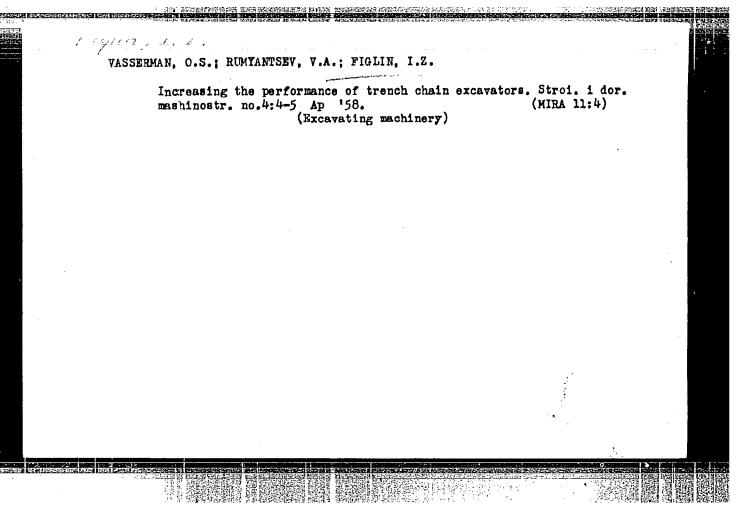
dielectric foil. The coupling capacitance is set up between the electrodes and the crystal. The circuit is a modified Meissner oscillator operating at high grid currents The measurements frequency is about 4.5 Mc. The grid current is measured by a milliammeter connected in series with an hf choke. The grid current I measured as a function of frequency (or capacitance of C) has a number of extrema. The oscillator frequency is selected to operate on one of the extremum values of I_n . Curves are given showing $\mathbf{I}_{\mathbf{x}}$ as a function of the interelectrode resistance of the crystal $\mathbf{R}_{\mathbf{x}}$ for various effective coupling capacitances. These curves show a characteristic minimum which increases with coupling capacitance. The region of considerable change in I extends over values of $R_{_{\rm P}}$ ranging from 10 Ω to 100 $K\Omega$ when the coupling capacitance is of the order of several dozen µµf. This range may be used for determining the unknown value of $R_{_{\mathbf{Y}}}$ from measurements of the grid current. A variable resistor R=0-5 K Ω is connected in series with the coupling capacitance and the resistance of the crystal. This resistance may be adjusted to give the minimum grid current when the resistance R is too low. The cathode potentiometer is adjusted for zero setting. The electrodes are made in the form of rollers from sheets of brass foil measuring about 20×8 mm. Resist ivities from about 10 Ω cm to 10 $K\Omega$ cm may be measured and this range may be extended to 100 KΩ·cm by changing the oscillator frequency. The accuracy of the measurement

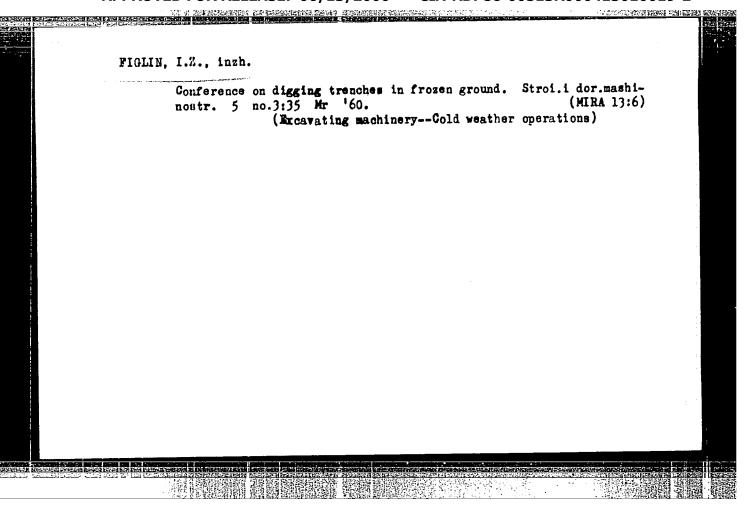
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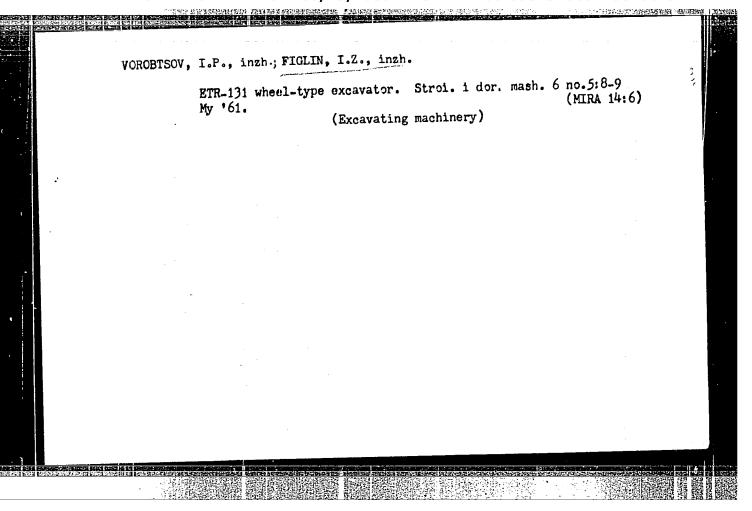
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varies from for measuri 4 figures.	n 10 to 20% depending on the resistance. The instrument may also ing the average resistivity of polycrystalline materials. Orig.	be used art. has:
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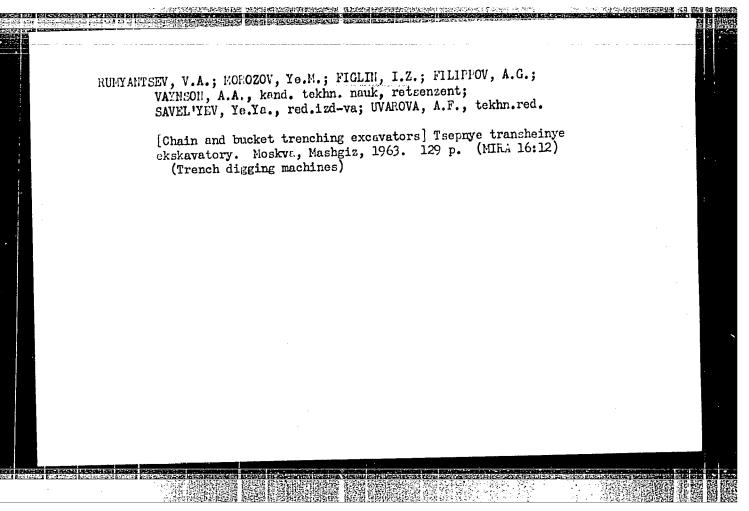


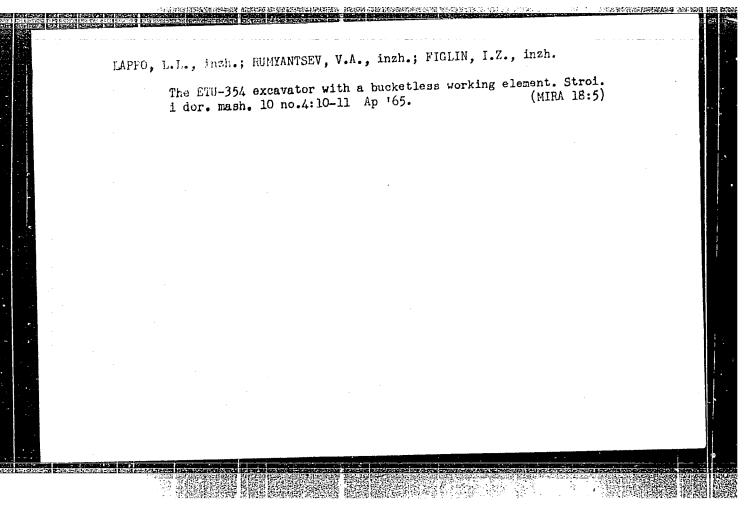


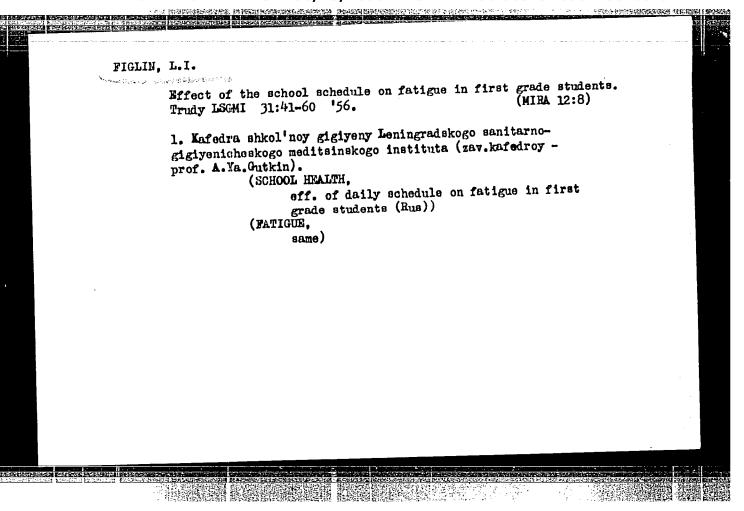












LEVIN, V.M. FIGLIN, L.I.

Characteristics of the physical development, state of health, living conditions, and education of students at metal trade schools in Leningrad in 1954. Trudy LSCHI 31:112-128 '56. (MIRA 12:8)

1. Kafedra shkol'noy gigiyeny Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav.kafedroy - prof. A.Ya. Gutkin) i Institut truda i professional'nykh zabolevaniy (dir. kand.med.nauk Z.K.Grigor'yev). (SCHOOL HEALTH,

phys. develop., health, living cond. & educ. in metallurgic trade schools (Rus))

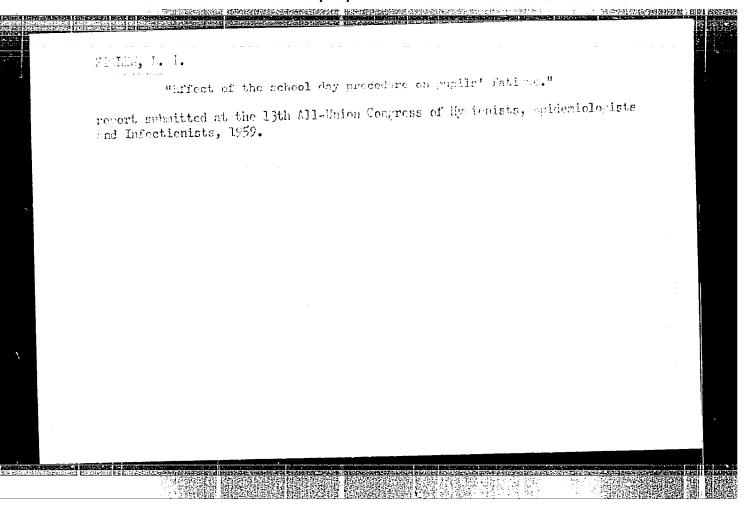
APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413010019-2"

FIGLIN, L.1.

Utilization of the carbon dioxide content of the air in child institutions as a sanitation index. Trudy LSGMI 31:154-159 (MIRA 12:8)

1. Kafedra shkol'noy gigiyeny Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav.kafedroy - prof. A.Ya. Gutkin).

(CARBON DIOXIDE, determination, in air in child. institutions (Rus))



GLAUER, G.A., assistent; LEBEDEVA, N.T., dotsent; NIKOLAYEV, A.N., assistent; PFEOBRAZIENSKAYA, N.N., assistent; RODINA, A.P., assistent; RUDAL'TSEVA, N.N., assistent; FIGLIN, L.I., dotsent; KHRAMTSOVA, A.D., assistent

"Handbook for school physicians" by M.D. Bol'shakova and others. Reviewed by G.A. Glauer and others. Gig. i san. 25 no. 5:117-120 My '60. (SCHOOL HYGIEME) (BOL'SHAKOVA, M.D.)

AR6014597

SOURCE CODE: UR/0274/65/000/012/A007/A003

AUTHOR: Figlin, T. L.

TITLE: Distortion of a frequency-modulated signal with a modulation index less one due to transmission through a linear circuit

SOURCE: Ref. zh. Radiotekhnika i elektrosvyazi, Abs. 12A61

REF SOURCE: Tr. Uchebn. in-tov svyazi, vyp. 25, 1965, 77-84

TOPIC TAGS: signal distortion, frequency modulation, frequency characteristic

ABSTRACT: An approximation method is described for calculating the phase angle function in order to estimate the frequency and nonlinear distortions of an FM signal with a modulation index less than one. It is shown that the dependence of frequency distortion on frequency is close to the static frequency characteristic $k(\omega-\omega_0)$. when great accuracy is not required, the frequency distortions of an FM signal with a small modulation index can be determined directly from the frequency characteristic as is done in the case of AM. Nonlinear distortions are characterized by the har $k_8 = 3 \frac{\Phi^3}{\Phi_1}, k_8 = 5 \frac{\Phi_5}{\Phi_1}$ monic coefficients

etc, where $\dot{\mathcal{Q}}$ is the phase of the corresponding harmonic which can be calculated with an accuracy of 10%. An example is given of an investigation of the dependence of cistortions on the parameters of the IF amplifier of the receiver (band width and coupling parameter), 3 illustrations, bibliography of 7 citations. L. S. Translation of abstract/ SUB CODE: 17, 09

UDC: 621.391.83

ACC NR. AR6026479

SOURCE CODE: UR/0274/66/000/004/A010/A019

AUTHOR: Figlin, T. L.

TITLE: Calculating the FM-signal distortion due to a linear circuit

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz!, Abs. 4A65

REF SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 26, 1965, 47-52

TOPIC TAGS: Element, signal distortion, frequency modulation

ABSTRACT: An approximate method is suggested for calculating the FM-signal distortion with an average modulation index of 0.9-5 and with any transfer constant of the linear circuit. The FM is assumed to obey the harmonic law. The calculation procedure is explained in detail, and an example is given of finding cross distortion arising in a single-stage IF amplifier of a stereo receiver with a critical coupling between its circuits. A satisfactory accuracy can be ensured with this method if the addends amplitudes are held at 0.0005 or higher. One figure. Bibliography of 7 titles.

L. S. [Translation of abstract]

SUB CODE: 09

Card 1/1

UDC: 621.391.14:621.376.3

BESKROVNYY, L.D., inzh.; KORSAKOVA, T.M., inzh.; LEBEDEV, N.V., inzh.;

PETROVA, Ye.P., inzh.; RUTKOVSKAYA, R.F., inzh.; FIGMAN. G. Ya;

inzh.; SHTIVEL', O.B., inzh.; ISEYEVA, R.Kh., red.izd-va;

SALAZKOV, N.P., tekhn. red.

[City streets and roads; their construction] Gorodskie ulitsy i dorogi; konstruktsii. Moskva, Izd-vo M-va kommun.khoz. (MIRA 16:8)

1. Russia (1917- R.S.F.S.R.) Upravleniye blagoustroistva gorodov RSFSR. (Streets) (Road construction)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413010019-2"

FIGNER, Avraam Il'ich; ANTIK, I.V., nauchn. red.; GUSEVA, L.F., red.

[Technology of the manufacture of electron-tubes; survey of foreign patents] Tekhnologiia izgotovleniia elektro-vakuumnykh priborov; obzor inostrannykh patentov. 1000 skva, TSentr. nauchno-issl. in-t patentnoi informatsii i tekhniko-ekonom. issledovanii, 1964. 25 p. (MIRA 18:7)

VINITSKIY, A.M., kand.tekhn.nauk; FIGOTIN, L.I., inzh.

Automatic programmed temperature control in autoclaves. Mekh.1
avtom.proizv. 17 no.ltl4-15 Ja '63.

(Thermostat)

(Thermostat)

CIA-RDP86-00513R000413010019-2 "APPROVED FOR RELEASE: 06/13/2000

Name: FIGLOVSKAYA, Lyubov' Ivanovna

Dissertation: The creative work of Yakub Kolas

Degree: Doc Philological Sci

Inst of Literature and Art, Acad Sci Affiliation!

Relorussian BSR

15 Jun 56, Council of Inst of World Defense Date, Place:

Literature imoni Gor'kiy, Acad Sci

USSR

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Certification Date: 16 Mar 57

Source: BMVO 13/57

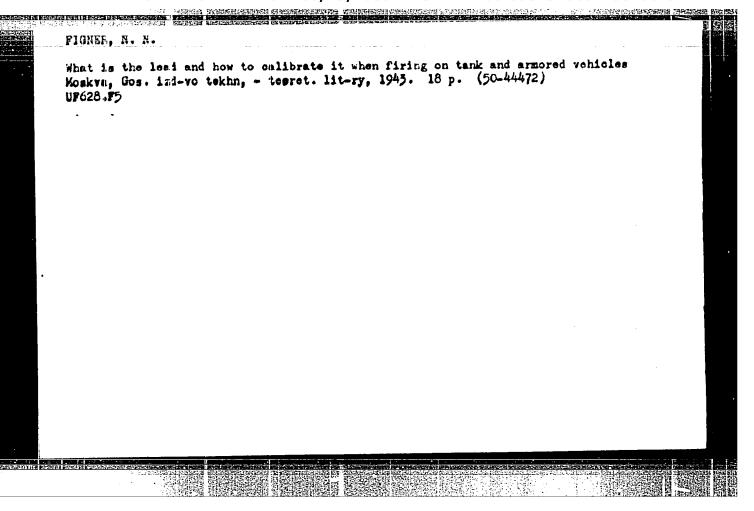
FIGLOUSKIY, V.F. USSR/ Engineering - Fixtures Fub. 128 - 11/23 Cand 1/1 1 Ablyaskin, I. N.; Figlovskiy, V. F.; and Busov, L.S. Authors * A fixture used in preparing pipes for mickel plating Title Feriodical : Vest. mas 1. 2, 50 - 51, Feb 1955 * A new type of fixture used on screw-cutting lathes for the preparation 1.bstract of pipes for nickel plating is described. Drawings depicting the structure and installation of the above mentioned fixture are presented, together with technical specifications. Drawings. Institution: Sabmitted:

Nethant sataly 1 as processes in Polymerate (1) processes	PHASE I BOOK EXPLO iya i avtomatizatsiya trud sive (Nechanization and Au sin Poundry Pitte) No 11p himeread. 4,000 copie	K. M. Skobnikov, Gendidate of Technical Sciences; Ed. page); G. I. Kobyyanaky, (Deceased); Ed. (Inside A. M. Sokolov, Candidate of Technical Sciences; Technical Sciences; Technical Sciences on the age of Machinery Manufacture (Leningrad Library); Manufacture (Library); Manuf	industrial processes. It may also be used by students of the sittutions of higher technical education. TEMGET The book data with recent achievements in the sechant-foundaties. Specific interest above-consulating operations in gentles. Specific interests of sechanisation and succession of the second sechanisation and succession in this book is divided into aix parts, dealing with the following subjects: sold and coveraking sating asserting asserted to the sold and coveraking constituting of cestings, and species cesting presented by several authors. The application of another long and any succession of an entered to the reconstitution of another long and cover to the section.	ration and streatishing of appoints and esting actions, such as invalidation of appoints and setting and the stream controls and additional additional and and additional additional papers published in this book were originally presented at a scholal conference of the Soviet machine lands of the addition and additional	Inguiga. B. P. Constructions of New Molding Machines 68 Inguit I. Installation for Modifying Cast Iron With Mag-	Murlo, Ye. A. Redesign of Control Rechanisms for Electric-aro 118 Furnaces Volymatty, V. H. Bydroblast Installation for Cleaning Castings 154 Volymatty, W. E. Hydroblast Cleaning of Castings 162 Ganthurg, A. D. Overmil Rechanization of Steel-casting Cleaning 167 Shops Dollberg, Z. A. Rechanization and Automation of Investment 176 Castings	Palogov, R.N. Recent Non-Soviet Achievements in the Automation 188 and Mechanization of Die Casting Lupyrev, L.L., N. P. Boroyskiy, G. P., Nikitin, A. L. Zayate, Lupyrev, L.L., W. P. Boroyskiy, G. P., Nikitin, A. L. Zayate, Sand S.L. Peologiano, Herannization of the Production of Stall Michaelsion Casting in Pressed Bakelite-base Shell Molds	dingburg, A. D. Seminutomatia Machine for Making Shell Molds 210	
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VENIKOV, V.A.; TELESHEV, B.L.; CHERNIKHOV, A.M.; IOKHVIDOV, E.S.;
GLAZUNOV, A.A.; FEDOSENKO, R.Ya.; FIGNER, L.M.; LERMAN,
D.N.; MEL'NIKOV, N.A.

I.S.Bessmertnyl; on his 60th birthday. Elektrichestvo no.10:
93 0 '63.

(MIRA 16:11)



FIGOL', D. I.

"Metodika nauchnoy propagandy v kul'turno-massovoy i nauchno-prosvetitel'noy rabote muzeyev (na opyte Ukrainskogo gosudarstvennogo muzeya etnografii i khudozhestvennogo promysla vo L'vove)."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences, Moscow, 3-1C Aug 64.

FIGORSKI, J.

"Characteristics of blocking systems with alternating current."

p. 246 (Przeglad Kolejowy Elektrotechniczny) Vol. 9, no. 11, Nov. 1957 Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

FIGOTIN, L.I.

127-58-7-11/20

AUTHOR:

Gol'din, M.L., Krivchikov, A.P., Marinin, N.S., and Figoting

L.I., Engineers

TITLE:

Gamma-Relay for Ore-Mining Equipment (Gamma-rele dlya gorno-

rudnogo oborudovaniya)

Soviet reference.

PERIODICAL:

Gornyy zhurnal, 1958, Nr 7, pp 60-61 (USSR)

ABSTRACT:

The Khar'kovskiy zavod kontrol'no-izmeritel'nykh priborov (The Khar'kov Testing and Measuring Devices Plant) (KIP) has built a gamma-relay for the mining industry. The laboratory studied various operating relays and concluded that detectors of gamma-relay radiation must be fed by direct current. Halogenous counters must be used as detectors. The intensity of their feed is almost equal to the anode feed of the electronic tubes used in the gamma-relay, and a common rectifier could be built. The authors give a detailed description of the device. The use of several such relays at the crushing plant YUGOK showed that the flow on the transmitting belt could be efficiently controlled, thus avoiding clogging or breakage of the belt. There are 2 photos, 1 schematic diagram and 2

Card 1/1

1. Mining equipment 2. Gamma relay-Applications

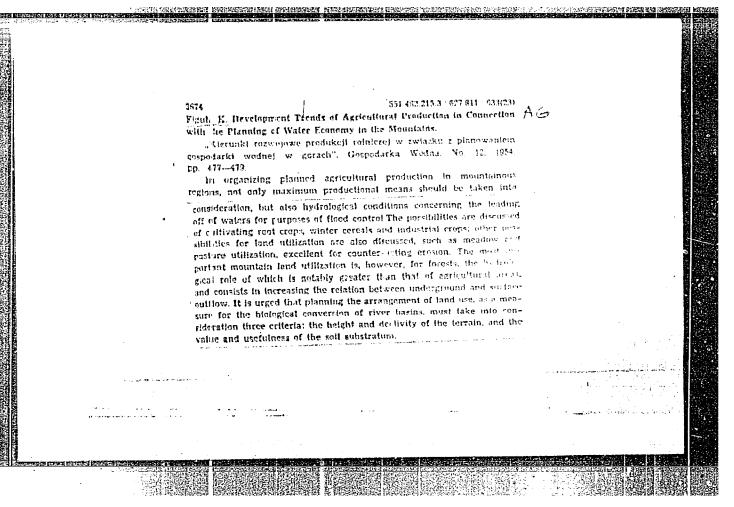
VINITSKIY, A.M., kand.tekhn.nauk; FIGOTIN, L.I., inzh.; BAKHVALOVA, L.B., inzh.

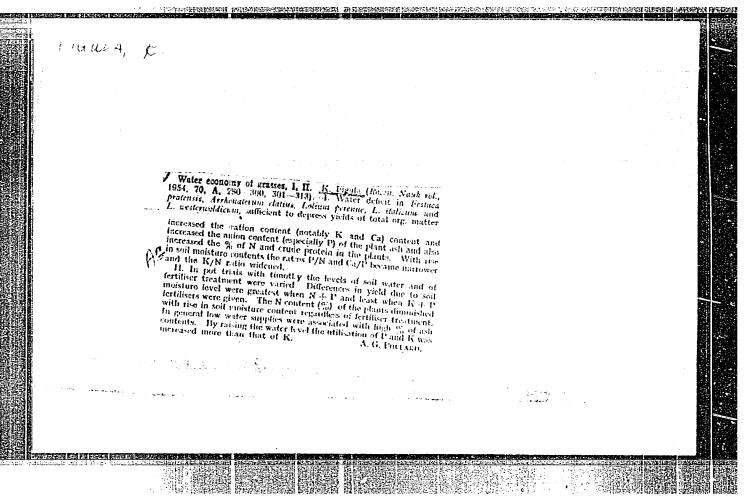
Automation of autoclave processing of building elements using a programmed temperature regulator. Stroi.mat. 8 no.7:23-25 Jl '62. (MIRA 15:8) (Autoclaves) (Automatic control) (Temperature regulators)

FIGULA, E.

"Researches Concerning Water Conditions of Highland Pastures." p. 179, (ROCZNIKI NAUK RCLNICZYCH. SERIA A-ROSLINNA, Vol. 66, no. 2, 1953, Warsaw, Poland).

SO: Monthly List of East European Accession, Lib of Congress, Vol 2, no 19 Oct. 1953, Uncl.





FIGULA, K.

Problem of water management in the highlands. p. 335

Vol. 15, no. 8, Aug. 1955 GOSPODARKA WODNA Warszawa

Source: East European Accessions List (EEAL), IC, Vol. 5, no. 3, March 1956

FIGULA, KAZIMIERZ.

POLAND/Soil Science - Cultivation, Amelioration, Erosion.

J-4

Abs Jour

: Ref Zhur - Biol., No 2, 1958, 5833

Author

: Figula, Kazimierz

Inst

. _____

Title

: A preliminary Characterization of the Erosion Processes on

the Soils of Several Territories of the Krakovskoye

Voyevodstvo.

Orig Pub

: Roczn. nauk rolniczych, 1955, F71, No 1, 111-148

Abstract

: On the basis of field experiments the author concludes that under similar geomorphological conditions the soils of loess deposits are subject to more intense erosion. In

loess deposits are subject to more intense erosion. In the Carpathian oblast' linear forms of erosion predominate.

Some anti-erosion measures are indicated.

Card 1/1

FIGULA, K.

A monograph on the upper Dunajec.

p. 327 (Prace i Studia) No. 1, 1956, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

FEHER, Istvan, dr.; FIGULI, Judit

Dialdehyde-cellulose as tanning material. Bor cipo 12
no.5/6:133-135 0 '62.

1. Boripari Kutato Intezet. 2. "Bor- es Cipotechnika" foszerkesztoje (for Feher).

ACC NR: AP602242	3 (A,N) SOURCE CODE: PO/0021/66/000/003/0111/0115	
AUTHOR: <u>Hickie</u> Borkowski, K. (N	wicz, J. (ModEng.); Zywiec, A. (ModEng.); Figura, T. (ModEng.)	ing);
ORG: [Hickiewic Machines (Polited A-31 Plant (Zakla	z; Zywiec] <u>Silesian Polytechnical University</u> , Chair of Electrichnika Slaska, Katedra Maszyn Elektrycznych); [Figura; Borked A-31)	ic owski
TITLE: A series	of magnetic amplifiers made in Poland	
SOURCE: Przeg	ad elektrotechniczny, no. 3, 1966, 111-115	
TOPIC TAGS: au	tomation equipment, magnetic amplifier, feedback amplifier, preamplifier	·
(internal feedbac	oductory remarks to the article contain the statement that ame a) magnetic amplifiers are among the contactless part of autom ped rapidly in recent years. The authors then proceeded to de	ation
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Card 1/2	UDC: 621, 375, 3	

L 44107-66

ACC NR: AP6022423

an industrial series of amplistat preamplifiers and power amplifiers developed in 1959—1963 by the Chair of Electric Machines (headed by Prof. Zygmunt Gogolewski) together with the A-31 Plant, which manufactures them at the present time. Amplifier design, power (selected to fit equipment made in Poland), and feed methods were given, and coupling of single-phase units into three-phase systems with a-c or d-c output was discussed. The 10-w preamplifier and 2500-w amplifier, typical of the series, were dealt with in detail, and the properties compared with foreign makes. The designer team expressed their thanks to Professor Z. Gogolewski, Docent Dr. W. Paszek, and Dr. J. Kubek for their guidance, numerous valuable suggestions, and group discussion of the many problems encountered in developing the series.

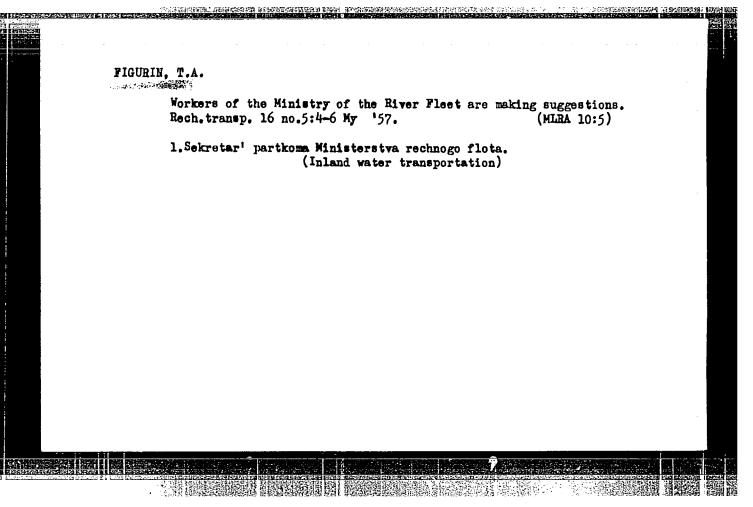
Orig. art. has: 13 figures and 4 tables. [Based on authors' abstract]

SUB CODE: 09/ SUBM DATE: none/ The second of the second of

Card 2/2 2C

Position gauges of noncontinuous automatic control systems.
Automatizace 7 no. 7:179-183 Jl '64.

1. Development Institute of Mechanization and Automation Development, Nove Mesto nad Vahom.



FIGURINA, I.I.

Regeneration of the cerebral cortex. Biul. eksp. biol. i med. 57 no.3:105-108 Mr '64. (MIRA 17:11)

1. Iaboratoriya sravnitel'noy fiziologii vnutrennikh analizatorov (zav. - prof. E.Sh. Ayarapet'yants) Instituta fiziologii imeni Pavlova (dir. - akademik V.N. Chernigovs'ciy) AN SSSR, Leningrad. Predstavlena deystvitel'nym chlenom AMN SSSR B.N. Klosovskim.

Flouring, I.I.

Corpora geniculatum lateralo and the visual nortex following enucleation in rats. Nauch.soob. Inst.fiziol. AN SSSR no.3: 164-167 *65. (MIRA 18:5)

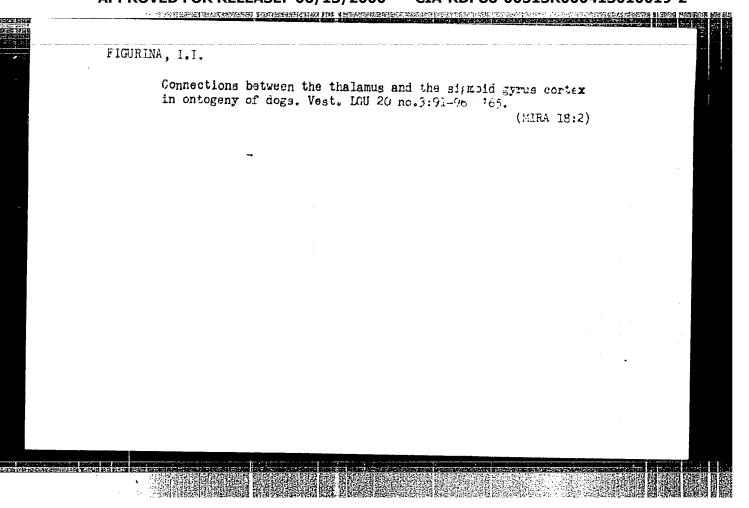
l. Laboratoriya sravnitel'noy fiziologii vnutrennikh analizatorov (zav. - E.Sh.Ayrapet'yants) Instituta fiziologii imeni Pavlova AN SCSR.

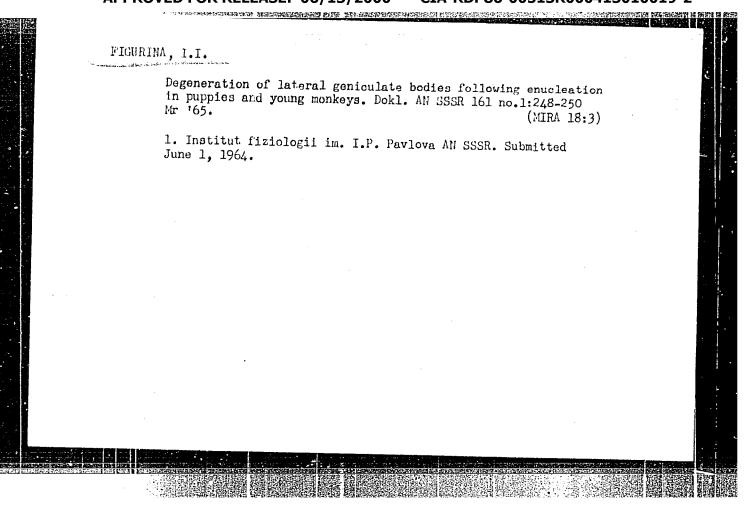
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FCICHEROVA, G.A.; FIGURINA, I.I.

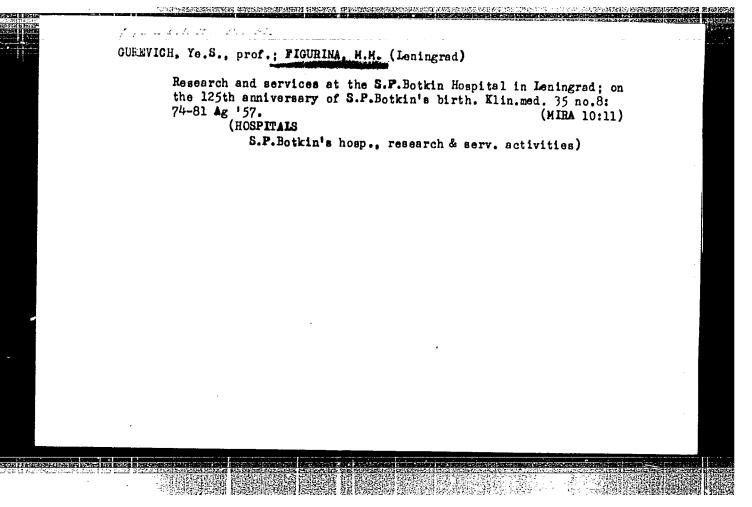
Histological examination of the brain following the extirpation of the cerebral cortex in dogs. Nauch. Boob. Inst. Fiziel. AN SSSR (MERA 1815) no. 3:153-157 '65.

1. Laborate 'ya sravnitel'noy fizielegii vnutrennikh analizatorov (vav. - E. h. Ayrapat'yants) Instituta fizielegii imeni Favlova an SSSR.





FIGURINA, M. M.			on court acquired and	the street country streets at	
209 <u>17</u> 3	The Western form described is distinguished clinically by a double wave of meningoencephalitis and is transmitted not only by the fact that the infection also by consumption of the milk of infected goats.	ion as transmitters, and dra ne - Infectious Diseases (Contd)	No 2, pp 19-27 characteristics, of tick encephality	linical Characteristics of the Atypicalick Encephalitis, S. N. Davidenkov, M. Ina, I. I. Shtill bans, Ye. F. Kullkova, krovskaya, Leningrad, Clinic of Nervous ate Inst for Advanced Ing of Physicians M. Kirov; Hosp of Infectious Disease.	



FIGURINA, Mariya Mikhaylovna, zasl. vrach RSPSR; SELIVANOV, V.I., red.; KHARASH, G.A., tekhn. red.

[S.P.Botkin Infectious Disease Hospital in Leningrad] Leningradskaia infektsionnaia bol'nitsa in. S.P.Botkina, 1882-1961.

Leningrad, Medgiz, 1961. 98 p. (MIRA 15:4)

(LENINGRAD—COMMUNICABLE DISEASES—HOSPITALS)

FIGURINA, M.M.; SEMENOVA, A.N.

Clinical characteristics of current forms of typhus as per data of the Leningrad S.P. Botkin Hospital. Trudy Len.inst.epid.i mikrobiol. 23:110-120 '61. (MIRA 16:3)

1. Iz Leningradskoy bol'nitsy imeni S.P. Botkina. (LENINGRAD—TYPHUS FEVER)

FIGURINA, Mariya Mikhaylovna; ZMEYEV, G.Ya., red.; SAFRONOVA, I.M., tekhn.
red.

[Typhus fever]Sypnoi tif. Leningrad, Medgiz, 1962. 10 p.
(MIRA 16:2)

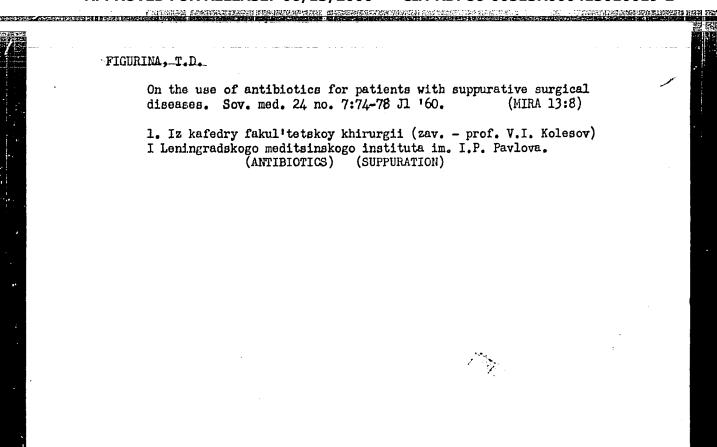
(TYPHUS FEVER)

KOLESOV, V.I., prof., FIGURINA, T.D., SARAYEVA, A.N.

Clinical and bacteriological observations of the use of antibiotics in purulent surgical diseases [with summary in English]. Khirurgita 24 no.4:31-36 Ap '58

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. V.I. Kolesov) I leningradskogo meditainskogo instituta imeni akademika I.P. Pavlova.

(ANTIBIOTICS, therapeutic use purulent dis., abscesses & infected wds., indic. (Eus.)) (INFECTION, therapy antibiotics in purulent dis., abscesses & infected wds. (Rus.))



- 11-11-12-12-12-12-12-12-12-12-12-12-12-1	
FIGURINA, T. D. Cand Med Sci "Clinical and bacterilogical observations in the surgical treatment of suppurative-disease patients." Len, 1961	لو
(Len State Order of Lenim Inst for the Advanced Training of Physicians im S. M.	
Kirov). (KL, 4-61, 211)	
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-38 -	

FIGURINA, T.D. (Leningrad, ul. Polyarnikov, d.19, kv.4); RCMANKOVA, M.P.

Methods of intravital coronary arteiography; a review of foreign literature. Vest. khir. 91 no.7:95-98 J1.63 (MIRA 16:12)

1. Iz fakulitetskoy khirurgicheskoy kliniki (zav. - prof. V.T.Kolesov) 1-ge Leningradskogo meditsinskogo instituta imeni Pavlova.

EARCHENKO, N.I.; KOLPAKOV, A.M.; FIGURINA, Z.G.; YASHIN, V.I.,

Starshiy instruktor

Effect of balloon treguers on the breakage of staple yarn No.40 in unwinding. Tekst.grom. 21 no.6:35-36 Je *61.

(MIRA 15:2)

1. Glavnyy inzh. Istom'inskoy pryadil'no-tkatskoy fabriki (for Barchenko). 2. Nachal'nik tkatskogo proizvodstva Istomkinskoy pryadil'no-tkatskoy fabriki (for Kolpakov). 3. Nechal'nik prigotovitel'nogo tsekha Istomkinskoy pryadil'no-tkatskoy fabriki (for Figurina).

(Textile machinery)

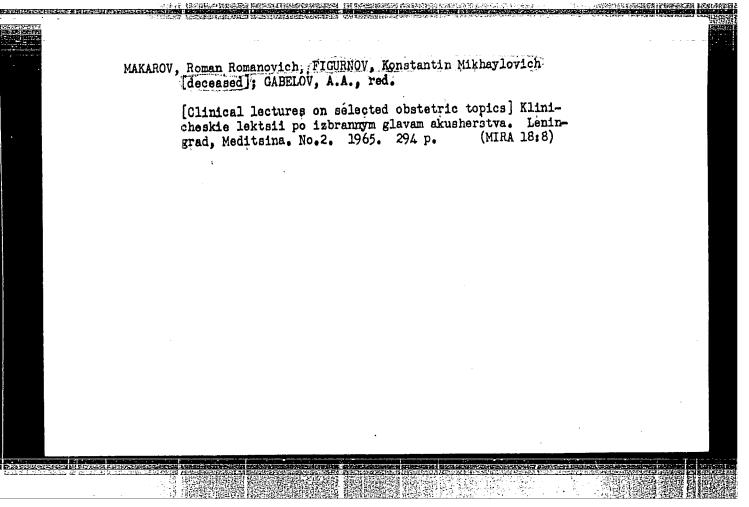
(Yarn)

KOLPAKOV, A.M.; FIGURINA, Z.G.; YASHIH, V.I.

Effect of ballon dividers on the breakage of yarn during winding. Tekst. prom. 22 no.7:40-42 J1 162.

(MIRA 17:1)

1. Nachal'nik tkatskogo proizvodstva Istomkinskoy pryadil'no-tkatskoy fabriki (for Kolpakov). 2. Nachal'nik prigotovitel'-nogo otdela Istomkinskoy pryadil'no-tkatskoy fabriki (for Figurina). 3. Starshiy instruktor Istomkinskoy pryadil'no-tkatskoy fabriki (for Yashin).



ZUBAREV, V.I.; HEREGOVSKIY, V.I.; FIGURKOV, I.V.

Transfer to oxygen-blown smelting of the Almalyk Copper Smeltery and an increase in its capacity. TSvet. met. 36 no.8:6-9

Ag '63. (MIRA 16:9)

(Almalyk-Copper industry) (Oxygen-Industrial applications)

CIA-RDP86-00513R000413010019-2 "APPROVED FOR RELEASE: 06/13/2000

FIGURKOVA, L.F.

137-58-5-8753

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 4 (USSR)

Plaksin, I. N., Okolovich, A. M., Figurkova, L. I., Yekhlakova, AUTHORS:

A Comparative Analysis of the Procedures Employed for the TITLE:

Separation of Copper-lead Concentrate at the Berezovskaya and (Sravnitel'nyy analiz usloviy raboty Zolotushinskaya Plant

tsiklov razdeleniya medno-svintsovogo kontsentrata na

Berezovskoy and Zolotushinskoy fabrikakh)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 10, pp 13-19

A presentation of results of the sampling of selective flotation of Cu-Zn (Cu-Pb?) concentrates at Zolotushinskaya and Berezovskaya ABSTRACT:

milling plants. A comparison of the data obtained revealed the following facts. According to all criteria the progress of flotation processes at the Berezovskaya plant is more stable. All operations of selective flotation at the Berezovskaya plant are carried out with considerably thicker pulp and the content of the solid constituents is kept constant. The processes at the two

plants also differ greatly with regard to the amounts of depressant employed. The Zolotushinskaya plant operates with a

Card 1/2

CIA-RDP86-00513R000413010019-2" **APPROVED FOR RELEASE: 06/13/2000**

137-58-5-8753

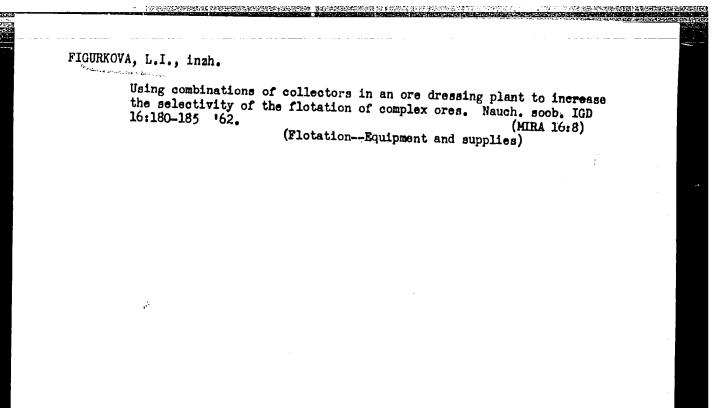
A Comparative Analysis of the Procedures Employed (cont.)

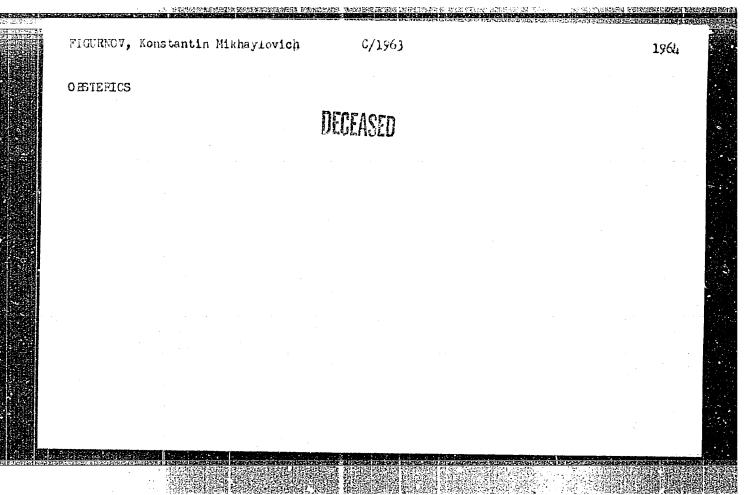
higher cyanide content. The selection process at that plant proceeds at a higher concentration of hydroxyl ion (with a pH greater than 10) without addition of alkaline reagents for the regulation of flotation; the introduction of soda merely impairs the separation of minerals. At the Berezovskaya plant 100-150 g/t of soda are introduced for this process while the pH remains within the range of 9.

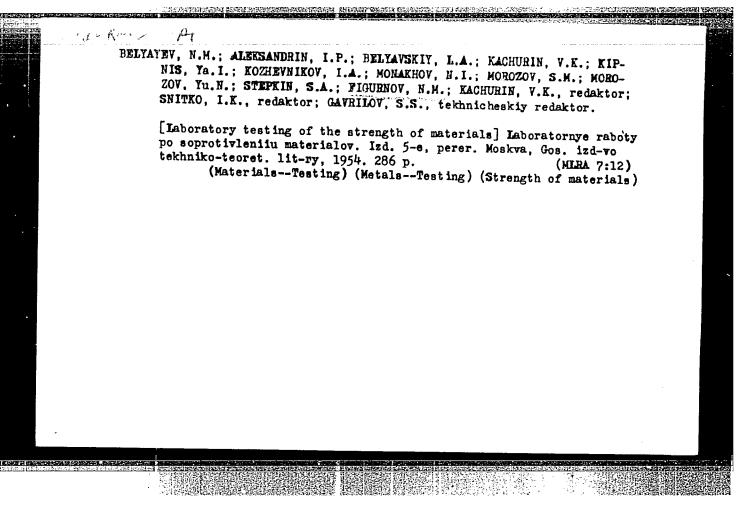
A. Sh.

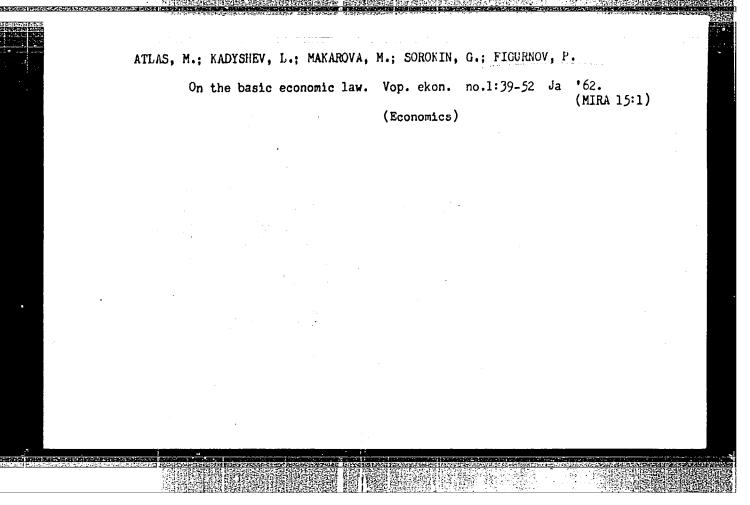
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 Zinc ores--Flotation
 Lead ores--Flotation

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