

ABAKUMOV, A.

Convenient attachment for automatic loaders. Mor. flot
16 no.10:31-32 0 '56. (MLRA 9:11)

1. Vtoroy pomoshch x kapitana parakhoda "Tartu."
(Norway--Cargo handling)

VOSKRESENSKIY, M.N., kand.med.nauk; ZAGORODNYAYA, V.G., vrach-rentgenolog;
MALUNEYEVA, Z.A., vrach-rentgenolog; ABAKUMOV, A.I., zasluzhennyy
vrach RSFSR.

Diagnosis and treatment of primary osteosarcoma. Trudy KGMI
no.10:397-400 '63. (MIRA 18:1)

1. Iz kafedry rentgenologii i meditsinskoj radiologii (:spolnyayu-
shchiy ob"yazannosti zav. kafedroy M.N.Voskresenskiy) Kalininskogo
oblastnogo onkologicheskog. dispansera (glavnyy vrach zasluzhennyy
vrach RSFSR T.N.Mikhireva) i Kalininskoy oblastnoy bol'nitsy No.1
(glavnyy vrach zasluzhennyy vrach RSFSR A.A.Sokolov).

ABAKUMOV, B.M.

Transistor-type DC voltage converter for feeding a DKZ dosimeter.
Med. rad. 5 no.1:73-74 Ja '60. (MIRA 15:3)

1. Iz kafedry rentgenologii i meditsinskoy radiologii (zav.
M.M. Mikhaylov) Voronezhskogo meditsinskogo instituta.
(ELECTRIC CURRENT CONVERTERS)
(RADIATION—DOSE)

ABAKUMOV, B.M.

Semiconductor d.c. transformer for supplying the charge device of
the Dk-0.2 dosimeter. Vest. rent. 1 rad. 35 no. 5:58 My-Je '60.
(MIRA 14:2)

1. Iz kafedry rentgenologii i radiologii (zav. - dotsent M.M.
Mikhaylov) Voronezhskogo meditsinskogo instituta (direktor -
prof. N.I. Odnoralov).
(RADIOMETER) (ELECTRIC TRANSFORMERS)

ABAKUMOV, B.M.

Small-sized semiconductor indicator of ionizing radiation. Vest.
rent. 1 rad. 36 no. 1:60-61 Ja-F '61. (MIRA 14:4)

(RADIOACTIVITY--INSTRUMENTS)

ACC NR: AP7006655

(A)

SOURCE CODE: UR/0126/66/022/005/0698/0701

AUTHORS: Salanskiy, N. M.; Logutko, A. L.; Frolov, G. I.; Abakumov, B. M.

ORG: Institute of Physics, SO AN SSSR (Institut fiziki SO AN SSSR)

TITLE: Static and impulse magnetization and reversal of magnetization of thin films

SOURCE: Fizika metallov i metallovedeniye, v. 22, no. 5, 1966, 698-701

TOPIC TAGS: magnetic hysteresis, hysteresis loop, ferromagnetic film, magnetic domain structure

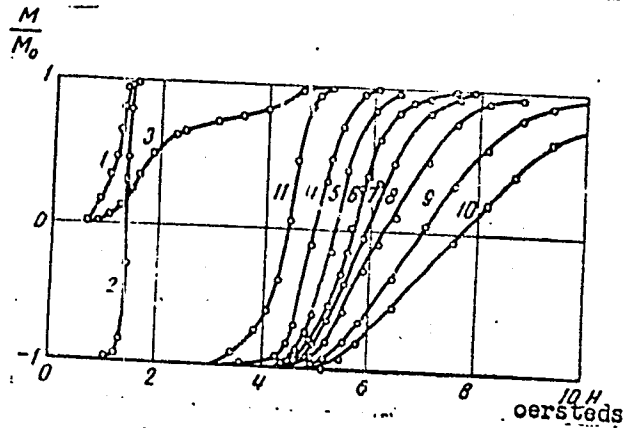
ABSTRACT: The "virgin" magnetization curve and hysteresis loops of thin films containing 52% Ni and 18% Fe were determined in static and pulsating magnetic fields. The effect of partial reversal of the magnetic field on the domain structure of the specimens was studied. The experimental procedure is described by T. S. Hoffman, I. A. Turner, and T. I. Kilburn (J. of British Institute of Radio Engineers, 1960, 20, 1, 31). The experimental results are presented graphically (see Fig. 1). Photographs of the domain structure of specimens exposed to different magnetization conditions are presented. The time dependence of domain nucleation on the magnitude of the variable magnetic field was also studied. The results are shown graphically. It was found that the change in the domain structure of specimen, as a result of the application of a variable magnetic field, was analogous to that found under similar conditions by N. M. Salanskiy and G. I. Frolov (FMM, 1966, 21, 157).

Card 1/2

UDC: 539.216.2:538.24

ACC NR: AP7000655

Fig. 1. Static (1) and impulse (3) "virgin" magnetization curves, static (2) and impulse (4--10) magnetic reversal curves and dispersion curve H_k in terms of magnitude (11) for thin ferromagnetic film ($H_k = 4.4$ oersteds, $H_c = 1.3$ oersteds, angular dispersion $\alpha_{90} = 0.06$ oersted, $d = 1100 \text{ \AA}$). Duration of impulses t_{imp} : 4 - 500, 5 - 300, 6 - 200, 7 - 150, 8 - 100, 9 - 70, 10 - 50 nanoseconds



Orig. art. has: 5 graphs.

SUB CODE: 20, 11/ SUBM DATE: 28Jun65/ ORIG REF: 002/ OTH REF: 001

Card 2/2

RAMOVAYEV, G.A.; ABAKUMOV, G.A.; PESTUNOVICH, V.A.

Structure of the protonated ion-radical of tetraphenyl
hydrazinium. Zhur. strukt.khim. 5 no. 2:307-309 Mr-Apr '64.
(MIRA 17:6)

1. Ger'kovskiy gosudarstvennyy universitet imeni N.I.Lobachevskogo.

ABAKUMOV, G.A.; SHILOV, A.Ye.; SHULYNDIN, S.V.

Electron paramagnetic resonance of the products of interaction between dicyclopentadienyl vanadium dichloride and aluminum alkyls. Kin. i kat. 5 no.2:228-234 Mr-Ap '64.

1. Institut khimicheskoy fiziki AN SSSR.

(MIRA 17:8)

SHCHEPINKOVA, M.F.; MEDVEDINA, E.A.; SHISHENKO, V.A.; ABRAHAM, G.A.

Catalytic decomposition of allyl hydroperoxide studied by means
of electron paramagnetic resonance. Dokl. AN SSSR 181 no.4:863-
871 1965.

(MIRA 18:10)

I. Gorkovskiy gosudarstvennyy universitet im. N.I. Lobachevskogo.
Submitted March 19, 1965.

L 46201-66 ENT(m)/EMP(j) IJP(c) RM
ACC NR: AP6027955 SOURCE CODE: UR/0020/66/169/003/0579/0582

AUTHOR: Abakumov, G. A.; Abramova, A. A.; Razuvayev, G. A. (Corresponding member AN SSSR)

ORG: Laboratory for Polymer Stabilization, Academy of Sciences, SSSR, Gorkiy (Laboratoriya stabilizatsii polimerov Akademii nauk SSSR)

TITLE: Free radicals in diphenylaralkylamine oxidation

SOURCE: AN SSSR. Doklady, v. 169, no. 3, 1966, 579-582

TOPIC TAGS: free radical, tertiary amine, oxidation mechanism, EPR, DIPHENYLAMINE

ABSTRACT: The mechanism of oxidation of the alkyl aryl tertiary amines, diphenylbenzylamine (I) and diphenyl(triphenylmethyl)amine (II), by 1) oxygen and 2) peroxides was studied by EPR spectroscopy. The experiments were carried out at different concentrations of the amine, usually in benzene solution at room temperature. It was found that oxidation of I by cumene hydroperoxide in the presence of cobalt stearate or by PbO₂ did not proceed in a neutral medium. However, in the presence of acetic acid or trichloroacetic acid, I and II were readily oxidized by PbO₂ or benzoyl peroxide. Likewise, I was readily oxidized by cumene hydroperoxide in the presence of acetic acid, and by atmospheric oxygen in the presence of trichloro- or trifluoro-acetic acid. Based on EPR data, it was proposed that an oxidation of I by

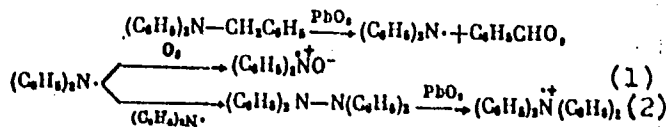
Card 1/3

UDC: 541.515+542.943+547.551.2

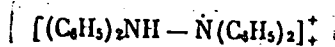
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ACC NR: AP6027955

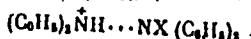
PbO₂ in the presence of acetic acid two competing processes occur:



At low concentrations of the amine, reaction (1) prevails, because the concentration of the oxygen dissolved in the benzene may be commensurate with the (C₆H₅)₂N· concentration. At high concentrations of the amine, reaction (2) prevails. Experiments involving II or oxidation with oxygen confirmed this mechanism. On oxidation of I and II by PbO₂ in the presence of trichloroacetic acid, formation of the ion-radical



or of the complex {

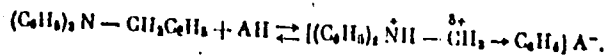


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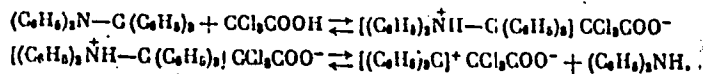
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ACC NR: AP6027955

(where X may be $-N(C_6H_5)_2$ or even $-CH_2C_6H_5$) may be assumed; the primary radical in this case is probably not $(C_6H_5)_2N\cdot$ but rather $(C_6H_5)_2\dot{N}H$. On oxidation of I and II by cumene hydroperoxide in the presence of cobalt stearate and acetic acid, $(C_6H_5)_2\dot{N}O^-$ was readily formed. Thus, in all cases rupture of the $(C_6H_5)_2N-CA_{2n}$ bond occurred. The effect of the acid was attributed to its weakening of the N-C bond due to formation of an ionic pair:



This was confirmed by the experimentally established fact of the dissociation of II in an acid medium in the absence of air:



Orig. art. has: 2 figures.

[SM]

SUB CODE: 07/ SUBM DATE: 08Jan66/ ORIG REF: 005/ OTH REF: 006

Card 3/3 fv

SLONIMER, B.M., insh.; KANEVSKIY, L.Ye., insh., retsentsent; ABAKUMOV,
G.I., insh., red.; MOLYUKOV, G.A., red.izd-va; SOKOLOVA, T.F.,
tekhn.red.

[Assembly of equipment and plants of the food industry; a reference
manual] Montazh predpriatii pishchevoi promyshlennosti; kratkoe
spravochnoe posobie. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1960. 376 p.

(MIRA 13:7)

(Food industry--Equipment and supplies)

ABAKUMOV, G.I.; KONOVALOV, E.Ye.

Apparatus for zone melting. Zav.lab. 25 no.12:1506-1507 '63.

(MIRA 17:1)

ARAKUMOV, G.V., kandidat veterinarnykh nauk.

Lumbar novocaine block as a pathogenetic method for treating colics
in horses. Veterinaria 33 no.4:55 Ap '56. (MIRA 9:7)

1. Leningradskiy veterinarnyy institut.
(Horses--Diseases) (Digestive organs--Diseases) (Novocaine)

AUTHOR: Abakumov, I.A., Engineer SOV/135-59-1-17/18
TITLE: A Pipe Cutting Machine (Stanok dlya rezki trub)
PERIODICAL: Svarochnoye proizvodstvo, 1959, Nr 1, p 46 (USSR)
ABSTRACT: A new design of a machine for the oxygen cutting of carbon steel pipes of 200 - 800 mm diameter was suggested by I.S. Yefremov, Director of the Angarsk Plant of Metal Structures. The new machine makes it possible to carry out straight and oblique cuts. Its operating principle is based on the combined reciprocating motion of the cutter and the rotary motion of the profiling device and the work. The machine was tested in practical use and proved satisfactory. There is 1 diagram and 1 photo.

Card 1/1

BARMIN, V.V., mashinist-instruktor; ABAMIRNOV, I.A., mashinist.
Instruktor; LYNICOV, N.I., mashinist-instruktor

Emergency brake accelerators on freight trains are not
necessary. Elek. i topl. tiaga 5 no. 345 My '61.

(Railroads--Brakes)

(MIRA 14:7)

ABAKUMOV, I.G.

Detachable forms for winding multisection coils. Sbor. rats.
predl. vnedr. v proizv. no.2:47-48 '61. (MIRA 14:7)

1. Pervoural'skiy Novotrubnyy zavod.
(Electric coils)

ABAKUMOV, Ivan Ivanovich; PETRENKO, N.P., red.; PECHERSKAYA, T.I.,
tekh. red.

[Industrial methods in sanitary engineering; from practices
of the assembling office of construction in Angarsk] Indu-
strial'nye metody santekhnicheskikh rabot; iz opyta raboty
montazhnoi kontory stroitel'stva Angarska. Irkutsk, Irkut-
skoe knizhnoe izd-vo, 1959. 86 p. (MIRA 17:2)

ABAKUMOV, I.I.

Conference on plane and reinforced concrete held in Angarsk. Bet.1
shel.-bet. no.9:341-342 D '55. (MIRA 9:3)
(Angarsk--Concrete--Congresses)

AUTHOR: Abakumov, I.I., Engineer.

207

TITLE: Crane with motor loader (Kran-avtopogruzchik.)

PERIODICAL: "Mekhanizatsiya Stroitel'stva" (Mechanisation of Construction)
1957, Vol. 14, No. 1, p. 25 (U.S.S.R.)

ABSTRACT: V.S. Ptitsyn, whilst engaged on assembly problems connected with the erection of the new town of Angarsk, devised a new crane with a collapsible mast which is mounted on a standard lorry Marks 4.001 and 4.003. This crane is used for hoisting sanitary fittings up to a weight of 150 kg, to a height of 15 m. The lower part of the support consists of steel channels No. 8 and 12, situated alongside each other when the crane is transported. The channels are lifted into an extended position by means of lever arms which are connected to the mechanism of the lorry. The weight of the mast is 260 kg, the arm of the crane can be extended up to 8.6 m. If the crane is permanently fixed the hoisting can be operated electrically by a winch which is situated on the lorry. When the crane is transported the mast is lowered so that its total height does not exceed 4.65 m from the ground and the arm is nearly horizontal. The arm can be dismantled and the lorry can be used for other purposes.

There is 1 photograph and 1 diagram.

А.А.Абакумов, И.И.

АБАКУМОВ, И.И., инж.

~~_____~~
T. Sizov's electric drill. Mekh. stroi. 15 no.1:24-25 Ja '58.
(Drilling and boring machinery) (MIRA 11:1)

ABAKUMOV, I.I., inzh. (g.Angarsk)

Taper plug. Stroi. truboprov. 5 no.3121 Mr 160.
(Pipe-- Testing)

(MIRA 13:9)

PHASE I BOOK EXPLOITATION

SOV/4471

Abakumov, Mikhail Mitrofanovich

Sovremennyye stanochnyye prisposobleniya (Modern Machine-Tool Accessories)
Moscow, Mashgiz, 1960. 326 p. Errata slip inserted. 10,000 copies printed.

Reviewer: F.P. Kostromin, Candidate of Technical Sciences; Managing Ed. for Literature on Metalworking and Machine-Tool Making (Mashgiz): V.I. Mitin, Engineer; Ed. of Publishing House: I.I. Lesnichenko; Tech. Ed.: Z.I. Chernova.

PURPOSE: This book is intended for designers, process engineers and other technical personnel concerned with the design and operation of machine-tool accessories. It may also be useful to students of machine building in schools of higher education.

COVERAGE: The book deals with basic trends in the development of modern accessories for machine tools. The author discusses advanced designs of mechanized actuators and accessories for machine tools and provides calculation data for these designs. Particular attention is given to the problem of the mechanization and automation of metal-cutting machine tools by using highly productive equipment. Also considered are technical and economical principles for the proper selection of the type of mechanized actuation and accessories of machine
Card ~~175~~

Modern Machine-Tool Accessories

SOV/4471

tools fitting various productional requirements. B.A. Shchukarev, Engineer (deceased) is mentioned as having contributed to the field. There are 21 references, all Soviet.

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Classification of standardized devices	13
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ABAKUMOV, M.M.

Rotor drive. Mashinostroitel' no.5:8-9 My '60. (MIRA 14:5)
(Machine tools--Pneumatic driving)

S/027/60/000/005/001/001
B019/B054

AUTHOR: Abakumov, M.

TITLE: Machine Attachments for the Mechanization and Automation of Mechanical Treatment

PERIODICAL: Professional'no-tekhnicheskoye obrazovaniye, 1960, No. 5, pp. 16 - 19

TEXT: As is universally known from time studies, the real working times on machines are comparatively short as against the times needed for clamping, etc. More economical conditions can be attained with the use of suitable devices. These devices are, as the author points out, to meet the following demands: they are to facilitate an accurate and rapid adjustment of the workpiece, possibly exclude any errors of adjustment, increase the productivity of work, extend the applicability of the machine, and facilitate work to operators. The author describes the fundamentals of pneumatic and hydraulic clamping devices, and stresses the advantages of hydraulic over pneumatic devices (higher pressure, quick response). He particularly deals with pneumohydraulic clamping devices, and describes in detail the system

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Machine Attachments for the Mechanization
and Automation of Mechanical Treatment

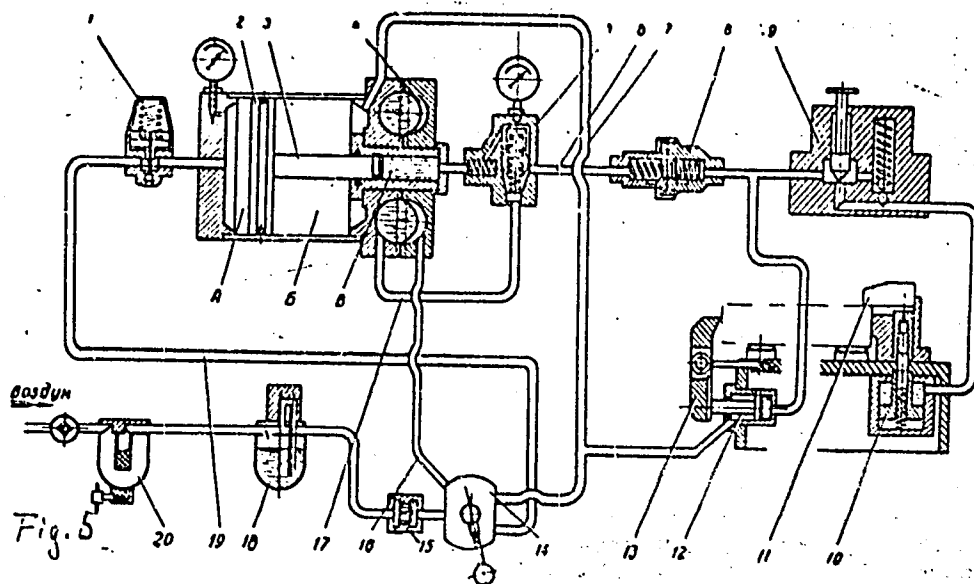
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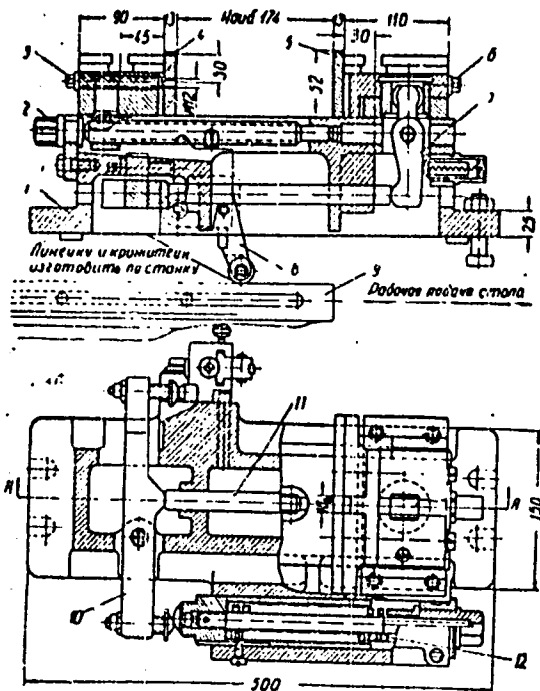
shown in Fig. 5. Finally, he discusses clamping devices for machine tools which, according to the working cycle, are coupled with the mechanical drive of the respective machine tool. Fig. 6 shows an example of such a clamping device. There are 6 figures.

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B019/B054

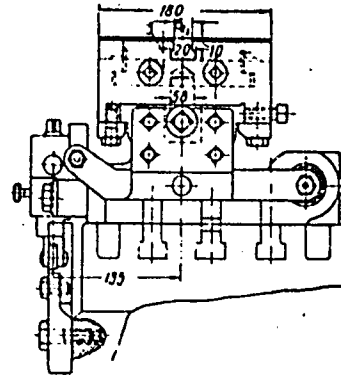


Рис. 6.

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S/027/60/000/005/001/001
BO:9/BO54

Legend to Fig. 5: 1) Pressure regulator, 2) piston, 3) piston rod, 4) diaphragm chamber, 5) valve, 6) and 7) pipelines, 8) sleeve, 9) regulating valve, 10), 11), 12), and 13) pistons and clamps of the clamping device, 14) hand lever, 15) back valve, 16), 17), and 19) pipelines, 18) oil atomizer, 20) water separator.

Legend to Fig. 6: 1) Body, 2), 3), and 6) setscrews, 4) and 5) immovable and movable jaws, 7), 10), and 11) lever arms, 12) spring, 8) roller, 9) ruler.

Card 5/5

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1089,1070

S/117/60/000/011/002/035
A004/A001

AUTHORS: Abakumov, M. M., Gekht, M. P.

TITLE: The Automation of Equipment Already in Operation

PERIODICAL: Mashinostroitel', 1960, No. 11, pp. 5-7

TEXT: The authors present a survey of the automation of standard machine tools which, fitted with automatic loading and unloading equipment, yield a high output and are successfully employed in automatic production lines. Thus, at the Izhevskiy mashinostroitel'nyy zavod (Izhevsk Mechanical Engineering Plant) standard multi-purpose machine tools have been turned into semi-automatics and full automatics, which made it possible to increase the efficiency of equipment, operating in a semi-automatic cycle, by 15 - 30%, while the efficiency of those machine tools operating in a fully automatic cycle could be increased by 30 - 60%. The model 161A screw-cutting lathe, e. g., was modernized and converted into a high-efficient automatic. The lathe was fitted with an adjustable loading installation of the gravity magazine feed type, connected to the control system of the lathe, with a device for the automatic feed and clamping of the work pieces, an automatic tool advancing and withdrawal mechanism, and also with an automatic

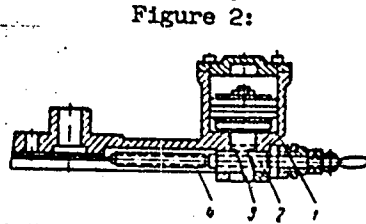
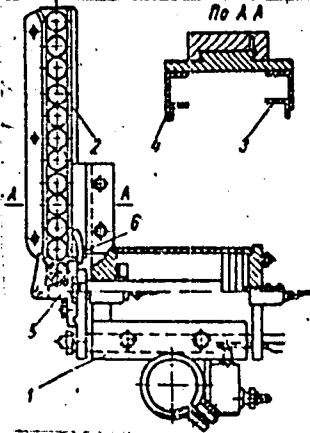
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The Automation of Equipment Already in Operation

S/117/60/000/011/002/035
A004/A001

longitudinal feed and accelerated withdrawal feed of the carriage. The automation of the lathe was carried out using a pneumatic path system, i. e. the subsequent order is given to the lathe after an operation has been terminated according to the preceding order. Figure 1 shows the universally adjustable gravity magazine feed system of the 161A lathe, while Figure 2 shows the operation of the tool advance with the aid of the pneumatic cylinder 1, stationary bush 2, double-arm wedge 3, rapidly displacing the slide 4 towards the work-piece.



Furthermore, a horizontal milling machine was converted into a high-efficiency automatic, by equipping it with a standard loading device, feed hopper, magazine and drum-type setting device operated by a worm reducer. This automated milling machine yields an output of 14,000 machine parts per shift. The authors distinguish between forced, semi-automatic and automatic conveyor systems.

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The Automation of Equipment Already in Operation

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A004/A001

While the two former are driven by electric, pneumatic or hydraulic motors, the latter convey the blanks and workpieces by gravity. Figure 4 shows a distributing chain-conveyer which feeds the blanks to several machine tools operating in parallel. The blanks are put on the conveyer by a chute 3 and are fed to the machine through the chute 4, which is fitted with a discharge mechanism by which the blanks are adjusted on the machine tool for machining. The authors state that at the Moskovskiy avtomobil'nyy zavod (Moscow Automobile Plant) highly

Figure:4:

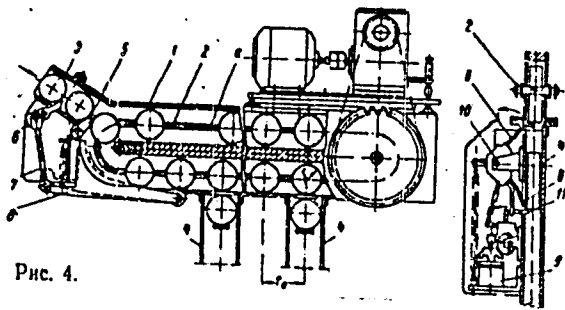


Рис. 4.

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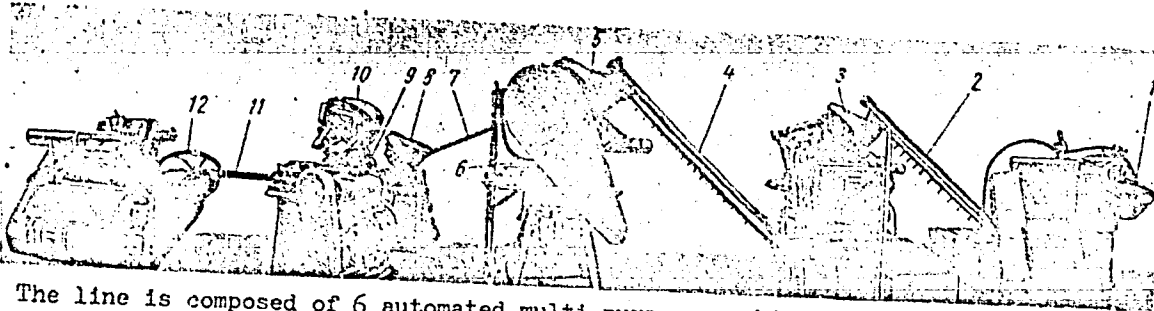
efficient automatic production lines have been developed by combining automated machine tools with automatic handling equipment. Figure 6 shows an automatic line, developed at the "Frezer" Plant according to a design of the "Orgstankinprom" Institute. This line, composed of modernized machine tools, is designated for the machining of 16 different sizes of hand-operated and mechanical taps with ground and non-ground thread profile.

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The Automation of Equipment Already in Operation

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A004/A001

Figure 6:



The line is composed of 6 automated multi-purpose machine tools, which have already been in operation for 10 - 15 years before being incorporated in the line, and are connected by automatic conveying devices. Each machine tool is fitted with an individual adjustable multi-purpose feed hopper loading device, which makes it possible to set and readjust the machine tools subsequently, without stopping the operation of the line. The tap blanks, preliminarily turned on automatic lathes, are loaded into the hopper of the centerless grinding machine 1. After being machined on that machine, they are conveyed by the chain conveyor 2

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The Automation of Equipment Already in Operation

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A004/A001

to the hopper of the second centerless grinding machine 3, from there onto the lining-up and sorting mechanism and then into the magazine. A pneumatic feeder places the tap in the machining position. The ground tap is conveyed by a chute onto the receiving part of the chain conveyor 4, which transports the tap to the lining-up unit of the eccentric press 5, where the square of the tap end piece is stamped with two strokes of the press. Over the chain conveyor 6 the taps are conveyed to the U-shaped chute 7 and, by gravity feed, get into the hopper of the branding machine 8. The branded taps are chuted into the receiving part of the conveyor 9, by which they are lifted into the hopper of the threading machine 10. After the thread being cut, the taps are placed on the inertia conveyor 11, which conveys them to centerless grinding machine 12 where the working part of the tap is ground. The labor productivity of a worker has increased by 6 times after the introduction of this automatic line. The modernization costs are compensated in the course of two years. There are 6 figures. X

Card 5/5

ABAKUMOV, Mikhail Mitrofanovich; KUZ'MIN, V.V., nauchnyy red.; ROGACHEV,
F.V., red.; NESMYSLOVA, L.M., tekhn. red.

[Attachments for lathes] Prispobleniia dlia tokarnykh stankov.
Moskva, Vses. uchebno-pedagog. izd-vo Proftekhizdat, 1961. 101 p.
(MIRA 14:8)

(Lathes—Attachments)

ABAKUNOV, Mikhail Mitrofanovich; NIKOLAYEVA, T.D., red.; GARINA, T.D.,
tekh. red.

[New methods for the automation of machine tools] Novye metody
avtomatizatsii metallorezhushchikh stankov. Moskva, Gos.izd-vo
"Vysshaya shkola," 1961. 112 p. (MIRA 14:12)
(Machine tools) (Automation)

ABAKUMOV, Mikhail Mitrofanovich; DAL'SKAYA, A., kand. tekhn. nauk,
nauchnyy red.; MESHKOVSKAYA, M., red.; SHLYK, M., tekhn.red.

[Automation of machine tools] Avtomatizatsia metallorezhushchikh
stankov. Moskva, Mosk. rabochii, 1963. 214 p. (MIRA 16:8)
(Machine tools) (Automatic control)

ABAKUMOV, Mikhail Mitrofanovich; KUZ'MIN, V.V., nauchn. red.;
MAKSIMOVA, Yu.M., red.

[Fundamentals of gear cutting] Osnovy zuboreznogo dela.
Moskva, Vysshiaia shkola, 1964. 270 p. (MIRA 17:12)

ABAKMOV, N.

PA 4175

USSR/Astronomy

Refraction, Astronomic

Jan/Feb 1948

"Determination of Latitude by the Talcott Method from Several Pairs Connected with the Same Position on the Talcott Levels," N. Abakmov, Zagreb Astr Inst, 18 pp

"Astr Zhur" Vol XXV, No 1

Describes errors commonly made when determining latitude, discusses effect of the refraction anomaly, and suggests that prolonged periods of observation are best means of obtaining accuracy.

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ABAKUMOV, N.

Yugoslavia (130)

Science - Serials

Grid. p. 170. ALMANAH BOSKOVIC. (Hrvatsko prirodoslovno društvo) Zagreb. (Annual on astronomy issued by the Croatian Society for Natural Sciences) 1951.

East European Accessions List, Library of Congress.
Vol. 1, no. 13, November 1952. UNCLASSIFIED.

ABAKUMOV, N.

ABAKUMOV, N. Coefficients and independent members of conditional pole equations. p. 195.

Vol. 9, no. 5/6, May/ June 1955.

CEODETSKI
Zagreb, Yugoslavia

So: Eastern European Accession Vol. 5 No. 4 April 1956

А В Акумов, М. И.

20(4)
AUTHORS:

Купа, Я. И., Богданов, О. И.,
Николаев, А. А., Акумов, М. И.

307/32-25-9-40/33

TITLE:

Automatic Weighing Unit for Small Weighed Portions of
Hard-to-pour Materials

PERIODICAL:

Zvezdskaya laboratoriya, 1959, Vol. 25, Nr. 3, p. 1132 (USSR)

ABSTRACT:

A device was developed for the automatic weighing of the silver charge which is used to produce powder metallurgical contacts. The method of dosage by means of a rotating disk of the charge being effected by means of plate-shaped magnetic units, and the control of the action by means of a contact breaker. The arrangement consists of means of a self-acting device, and the controlling device as shown in the description of the graph (Fig). The working principle of the system is the following: the material falls out from a turning disk of the charge which it is brought into a sloping groove by means of a ratchet and then falls into a tiltable scalepan. At the moment when the desired quantity of the material is in the scalepan, a Kg-contact is interrupted, thus interrupting the feed of the material. At the same time starting a mechanism which captures the scalepan with the weighed material.

Card 1/2

When the scalepan is empty and the balance of the scales is restored, the above-mentioned Kg-contact is closed and the process is repeated. Charges of 0.5-8.0 g can be weighed with a precision of ± 0.05 g in 4-5 seconds. There is 1 figure.

ASSOCIATION:

Dzh'kovskiy elektromekhanicheskiy zavod (Dzh'kov Electro-mechanical Plant)

Card 2/2

KROYTER, M.K.; KATKOV, M.T.; ABAKUMOV, N.I.

Physiological features of various breeds of sheep and their crosses
based on the data of the electrophoretic study of serum proteins
and hemoglobin. Trudy Inst. eksp. biol. AN Kazakh. SSR 11:113-123
'65.

(MIRA 18:10)

KORCHUNOV, S.S., kand. tekhn. nauk; MOGILEVSKIY, I.I.; ABAKUMOV, O.N.

Determining the coefficients of moisture by the method of
a constant overflow on the surface of the sample. Trudy
VNIITP no.18:156-166 '61. (MIRA 17:1)

KORCHUNOV, S.S., kand. tekhn. nauk; ABAKUMOV, O.N.

Portable tensiometric apparatus for measuring the mechanical stresses in peat machinery parts and the power transmitted by transmission devices. Trudy VNIITP no.18:186-195 '61.
(MIRA 17:1)

GIMMEL'MAN, Nikolay Robertovich; KOCHUROV, Aleksey Stepanovich;
Prinimali uchastiye: BORISOV, A.P., inzh.; ZHIDEIKH, I.A.,
inzh.; VOLEGOV, A.F., inzh.; SHABALIN, L.A., inzh.
MIKHAYEV, N.P., kand.tekhn.nauk, retsenzent; ABAKUMOV, S.F.,
inzh., retsenzent; ZASYPKIN, A.G., inzh., retsenzent;
ZALOZHNEV, G.N., inzh., retsenzent; KLOTSMAN, M.I., inzh.,
retsenzent; KOLMOGOROV, S.M., inzh., retsenzent; BLANK, N.M.,
inzh., red.; DUGINA, N.A., tekhn.red.

[Making models] Model'noe proizvodstvo. 3. perer. izd.
Moskva, Mashgis, 1961. 295 p. (MIRA 14:12)

(Engineering models)

(Molding (Founding)--Equipment and supplies)

1. ABAKUMOV, S. G.
2. USSR (600)
4. Earthwork
7. Speedy method of unloading clay from trucks with sideboards. Gidr. 1 mel. 4 no. 12: 1952

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

KOZHIN, I.I., prof., glav. red.; ABAKUMOV, V.A., zam. glav.
red.; BLINOVA, Ye.N., red.; BYKOV, V.P., red.;
MAKSIMOV, S.I., red.; ORADOVSKIY, S.G., red.;
POLULYAK, S.I., red.; VELICHKO, Ye.M., red.

[Papers of young scholars] Trudy molodykh uchenykh.
Moskva, Pishchevaia promyshlennost', 1964. 261 p.
(MIRA 18:1)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut
morskogo rybnogo khozyaystva i okeanografii. Vsesoyuznyy
nauchno-issledovatel'skiy institut morskogo rybnogo kho-
zyaystva i okeanografii, Moskva (for Abakumov, Blinova,
Bykov).

АБАКУМОВ, В.А.

Life of the Baltic migratory lamprey. Vop. ikht. no. 6:122-128 '56.
(MLRA 9:8)

1. Moskovskiy tekhnicheskiy institut rybnoy promyshlennosti i
khoz'yaystva imeni A.I. Mikoyana -- Mosrybvuz.
(Baltic Sea--Lampreyes)

ABAKUMOV, V.A.

Causes of similarity in the ecology of Salmoninae and Petrozoinae. Nauch. dokl. vys. shkoly; biol. nauki no.3:25-28 '60.
(MIRA 13:8)

1. Rekomendovana kafedroy ikhtiologii i syr'yevoy bazy Kalininskogo tekhnicheskogo instituta rybnoy promyshlennosti i khozyaystva.

(Salmon) (Lampreys)

ABAKUMOV, V.A.

Systematics and ecology of the Far Eastern brook lamprey from
the Amur Basin. Vop. ikht. no.15:43-54 '60. (MIRA 13:9)

1. Moskovskiy tekhnicheskoy institut rybnoy promyshlennosti
i khozyaystva im. A.I.Mikoyana.
(Amur Valley--Lampreys)

ABAKUMOV, V.A.

Local breaks in the reproductive isolation between salmon
and salmon trout. Trudy VNIRO 42:167-170 '60.

(MIRA 13:9)

(Baltic Sea--Salmon)

(Baltic Sea--Trout)

ABAKUMOV, V.A.

Methods of studying the dynamics of growth in weight and length
in fishes. Trudy sov. Ikht. kon. no.13:194-201 '61.

(MIRA 14:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo
rybnogo khozyaystva i okeanografii - VNIRO.
(Growth) (Fishes)

ABAKUMOV, V.A.

Seasonal strains of migratory fishes. Vop. ikht. no.17:179-190
'61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo
khozyaystva i okeanografii (VNIRO).
(Fishes--Migration)

ABAKUMOV, V.A.

Sea life of the Pacific Ocean lamprey *Entosphenus tridentatus*
(Richardson). Trudy VNIRO 49:253-256 '64.

(MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo
khozyaystva i okeanografii.

ABAKUMOV, V.A.

Some problems connected with determination of efficient fishing intensity. Trudy VNIRO 50:178-192 '64. (MIRA 17:12)

L 36340-65

ACCESSION NR: AF5006504

ed periodically, which results in the appearance of the periodic signal at the output. Signal location is determined by the position of the horizontal (frame) scan of the

ASSOCIATION: none

SYNOPSIS: [faded]

ENVY

NO. 114 E

Card 2/2

PETRENKO, A.I., kand.tekhn.nauk; ABAKUMOV, V.G.; BUDNYAK, A.A.

Generator of complex-shape pulses. Avtom.i prib. no.4:41-43
0-D '62. (MIRA 16:1)

1. Kiyevskiy politekhnicheskiy institut.
(Pulse techniques (Electronics))

ABAKUMOV, V.G.; PETRENKO, A.I., kand. tekhn. nauk; DENBNOVETSKIY, S.V.

Functional graph converter with a vidicon. Avtom. i prib.
no.4:47-51 O-D '63. (MIRA 16:12)

1. Kiyevskiy politekhnicheskii institut.

KARAUŠHEV, A.V.; ABAKUMOV, V.I.; MARKUS, Ye.K.

Method for approximate calculation of the sedimentation rate of gats.
Trudy Okean.kom. 8:109-113 '61. (MIRA 14:5)

1. Gosudarstvennyy gidrologicheskiy institut Gidrometsluzhby SSSR
(for Karaushev). 2. Proyektnyy institut No.1 Ministerstya stroitel'-
stva RSFSR (for Abakumov, Markus).
(Sedimentation and deposition)

ABAKUMOV, V.N.

ABAKUMOV, Y.N.; ZLATOVERKHOVNIKOV, L.F , kand. tekhn.nauk.

Calculating the general stability of hydraulic structures
by the limiting states method. Trudy TSNIIMF no.12:40-44

'57.

(MIRA 11:2)

(Hydraulic engineering)
(Structures, Theory of)

MIRONOV, S., doktor tekhn. nauk; KRYLOV, B., kand. tekhn. nauk; MUKHA,
V., kand. tekhn. nauk; ABAKUMOV, Yu., inzh.

Improved method of sealing joints of large-panel buildings in
winter. Zhil. stroi. no.9:23-25 '65. (MIRA 18:11)

MOROZOVA, M.G.; TROPIMOV, K.A.; MAKSIMOVA, T.K.; TURONOK, L.F.; ABAKUMOVA, A.I.;
GLADIKH, V.G.; YAKOVENKO, Z.L.; KUZNETSOVA, V.I.; DUSHKINA, M.M.; LEYBIN,
L.S.; DEKHTYAR', S.M.

Vlacheslav Vasil'evich Aliakritskii. Arkh. pat., Moskva 15 no.2:
95-96 Mar-Apr 1953. (CJML 24:3)

1. Professor Vyacheslav Vasil'yevich Alyakritskiy is a Doctor Medical
Sciences and Head of the Department of Pathological Anatomy at Voronezh
Medical Institute.

KULAKOV, P.A., inzh.; ABAKUMOVA, A.S., inzh.

The concrete of the hydraulic structures of the Volgograd
hydroelectric development. Gidr. stroi. 32 no.12:11-13 D
'61. (MIRA 15:2)
(Volga hydroelectric power station (22nd Congress of the CPSU)---
(concrete))

L 14263-66 EWT(1)/FS(v)-3 SCTB DD/RD
ACC NR: AT6003846 SOURCE CODE: UR/2865/65/004/000/0107/0118

AUTHOR: Abakumova, I. A.; Akhlebininskiy, K. S.; Bychkov, V. P.; Demochkina, N. G.;
Kondrat'yev, Yu. I.; Ushakov, A. S.

ORG: none

TITLE: Some data on the animal link in a closed ecological system ^{2, 44, 55} 42
41
B-1

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 107-118

TOPIC TAGS: closed ecology system, space nutrition, commercial animal, animal husbandry

ABSTRACT: Data on the animal part of a closed ecological system such as might be used in spaceflight (based on unicellular algae, higher plants, animals, and man) are presented. Most of the information concerns chickens and ducks, good choices because they mature fast, produce a sufficient quantity of nutritious food, and have a high yield of meat and eggs per unit of feed. Comparative analysis shows that to produce 1 kg of meat and fat, cattle require approximately twice as much feed, and pigs 1.5 times as much
Card 1/3

2

L 14263-66
ACC NR: AT6003846

feed as broiler chickens. Furthermore, new generations of chickens and ducks are easily raised by incubating fertilized eggs, and their offspring (taken together) weigh more than the offspring of other animals. The meat of chickens and ducks has more protein and is of higher food value than the protein of other animals. Calculations are made of the number of ducks required to provide a cosmonaut with his daily requirement of animal protein (40--45 g), and tables showing turnover of the flock are listed. For instance, it was concluded that 9 Peking ducks (40 days old) will feed a cosmonaut for 1 month. Fifty eggs are needed for food and hatching in the same period. The daily food and water requirement for this duck population is computed, together with the amount of respired CO₂. Analogous comparative data are listed for chickens. Charts of the nutritive content and caloric value of the food produced by chickens and ducks are included.

It is calculated that for 1 kcal of this food, 25.4 kcal of feed is expended for a duck, and 22.2 kcal for a chicken. Of course, the needs of other links in the closed system will determine whether chickens or ducks are finally chosen. Both animals have advantages: ducks, for instance, can be fed a

Card 2/3

L 14263-66
ACC NR: AT6003846

higher percentage of green fodder, and they both mature and gain weight faster than chickens. It must be emphasized that these are only preliminary calculations. More information must be collected about these and other animals, and many experiments must be conducted with each in a closed ecological system. Orig. art. has: 9 tables. [ATD PRESS: 4091-F]

SUB CODE: 02, 06 / SUBM DATE: none / ORIG REF: 013 / OTH REF: 002

Card 3/3 *BA*

ABAKUMOVA, L.F., dotsent

Medicinal preparation of Polygonum. Trudy AZVI 9:256-257 '56.
(MIRA 15:4)

1. Iz kafedry farmakologii (zav. kafedroy - kand.veterinarnykh
nauk dotsent L.F.Abakumova) Alma-Atinskogo soveterinarnego
instituta.

(Polygonum—Therapeutic use)

BULAKH, A.G.; ABAKUMOVA, N.B.

Sebl' -Yavr massif of ultrabasic and alkalic rocks and
carbonatites (Kola Peninsula). Sov.geol. 3 no.5:47-60
My '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii
institut.
(Kola Peninsula--Rocks, Igneous)

NEKRASOV, S.G.; SACHKO, N.S.; ABAKUMOVA, N.V.

Book reviews. Izv.vys.ucheb.zav.; Chernomet. 8 no.8:194-200 '65.
(MIRA 18:8)

1. Sibirskiy metallurgicheskiy Institut.

ANANIKOVA, G. I. Card Geograph Sci.

Dissertation: Connection of Lithology with the Karst Caves of the Paruvian Near-Mirals"
Inst. of Geography, Acad. Sci. USSR 21 Jan 47

SO: Vechernnyaya Moskva, Jan, 1947 (Project #17036)

ABAKUMOVA, Y.I., LEONOV, I.D.

Public Health

Public Health measures on collective farms. Sov. zdrav., 11 no. 1, 1952.

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

AUTHOR: Abakumova, Y. I.

TITLE: A closed memory element. ^{16C} Class 42, No. 167619 ^B

SUBMITTED: 20 Jan 63

NO REF SOV: 000

ENCL: 1

OTHER: 000

SYCHEV, M.M.; ASTAKHOVA, M.A.; Primalni uchastiye: ABAKUMOVA, V.N.,
student; VOROB'YEVA, A.A., student

Burning mixes containing coarse-grained quartz. Trudy Giprotse-
ment no. 26:19-28 '63. (MIRA 17:5)

ABAKUMOVA, Ye.A., kandidat meditsinskikh nauk

**Roentgenologic diagnostic examination of the permanent teeth
and of the periapical tissue in children 6-15 years of age.
Stomatologiya no.3:9-11 Ky-Je '55. (MLRA 8:9)**

- 1. Iz kafedry terapevticheskoy stomatologii (zav.dotsent
T.T. Shkolyar) Leningradskogo meditsinskogo stomatologicheskogo
instituta (dir.prof. R.I. Gavrilov)
(PERIODONTIUM, diseases,
in child & adolescents, x-ray diag. of peri-apical
dis.)
(TEETH, diseases,
permanent teeth dis. in child. & adolescents, x-ray
diag.)**

ABAKUMOVA, Ye. A., kand. med. nauk

X-ray data on the normal state of the periodontium in children
from 6 to 16 years old. Trudy KGMi no.2:83-88 '60.
(MIRA 15:7)

1. Iz kafedry terapevticheskoy stomatologii - zav. kafedroy
dotsent T. T. Shkolyar.

(PERIODONTIA) (GUMS---RADIOGRAPHY)

ABAKUMOVA, Ye.A., kand.med.nauk; DRANITSYNA, V.B., assistant

Fluorosis and caries lesions of the teeth in Kalinin schoolchildren.
Stomatologiya 41 no.4:7-10 JI-Ag '62. (MIRA 15:9)

1. Iz kafedry terapevticheskoy stomatologii (zav. - dotsent T.T. Shkolyar) i kafedry obshchey khimii (zav. - dotsent V.S.Malinovskiy) Kalininskogo meditsinskogo instituta.

(KALININ--TEETH--DISEASES) (KALININ--FLUORINE--TOXICOLOGY)

ABAKUMOVA, Ye.A., dotsent; ROZHNOVA, R.A., assistant

Results of planned hygiene of the oral cavity in children of
the city of Kalinin within a 5-year period. Stomatologiya 41
no.5:17-20 S-O '62. (MIRA 16:4)

1. Iz kafedry terapevticheskoy stomatologii (sav. - dotsent
T.T.Shkolyar) Kalininskogo meditsinskogo instituta.
(KALININ—STOMATOLOGY)

(KALININ—CHILDREN—CARE AND HYGIENE)

ABAKUMOVA, Ye.A., dotsent; ARTEMONOVA, R.N., assistant; DRANITSINA, V.B.,
assistant; SHUTOVA, T.N., assistant

Interrelation between decay of the teeth in children and the
fluorine content in the waters of some districts in Kalinin
Province. Trudy KGMI no.10:74-75 '63.

(MIRA 18:1)

1. Iz kafedry terapevticheskoy stomatologii (zav. kafedroy -
dotsent T.T.Shkolyar) i kafedry obshchey khimii (zav. kafedroy -
dotsent V.S.Malinovskiy) Kalininskogo gosudarstvennogo medi-
tsinskogo instituta.

ABAKUMOVA, Ye.A., dotsent; SEMENOV, N.V., prof.

Temperature of the teeth in health and in the dynamics of the course of caries and pulpitis. Trudy KGMI no.10:403-407 '63.
(MIRA 18:1)

1. Iz kafedry terapevticheskoy stomatologii (zav. kafedroy dotsent T.T.Shkolyar) i kafedry normal'noy fiziologii (zav. kafedroy - prof. N.V.Semenov) Kalininskogo gosudarstvennogo meditsinskogo instituta.

SHKOLYAR, T.T., dotsent; ABAKUMOVA, Ye.A., kand.med.nauk; TSUPROVA, N.D.;
TUROBOV, V.A.; ANTONOVA, N.I.; IVANOVA, A.I.; KREKSHINA, V.Ye.;
ROZHNOVA, R.A.; VINOGRADOVA, V.G.; DAVYDOVA, L.P.

Analysis of patients' visits and therapeutic work in the
therapeutic section of a stomatologic polyclinic. Stomatologiya
41 no.5:25-29 S-0 '62. (MIRA 16:4)

1. Iz kafedry terapevticheskoy stomatologii (ispolnyayushchiy
obyazannosti zaveduyushchego - dotsent T.T.Shkolyar)
Kalininskogo gosudarstvennogo meditsinskogo instituta.
(STOMATOLOGY) (DENTAL CLINICS)

~~AKUMOVA, O.N.~~ ^{AKUMOVA, O.N.}
22012 Michiricheniye Federateli krovni i roddi pod yuzvomoy kolesni v kendirrade v
1945--1946 g. -- Avt: Ya. I. Minin-Chernomirskaya, A. V. Nikitova, A. I. Zhelezova
(i dr) Gov. voshchib. Cherni, vyp. 14, 1946, s. 18-20 -- Bibliogr: Sluzv

SO: Letopis' Zhurnal'nykh Shtatey, No. 29, Moskva, 1946.

АББАКУМОВА-ЗЕПАЛОВА, О. Н.

USSR

Metabolic changes in tissues of rats on inadequate protein diet. O. N. Abbakumova-Zepalova, Yu. M. Geffer, E. I. Glinka-Chernoultseva, M. G. Melik-Bagdasarova, B. I. Turdypko, and B. K. Tydzhan-Chstverikov (1st Leningrad Med. Inst.). *Ukrain. Biokhim. Zhur.* 22, 259-65 (1950); cf. *Byull. Eksp. Biol. i Med.* 27, 294 (1949).--Quantitatively and qualitatively inadequate protein diet causes various metabolic disturbances affecting neuro-humoral regulation. Adequate quantity and quality of protein must be fed both healthy and sick people with protein deficiency. With 82 rats, it was found that in both liver and muscle acetone bodies increase considerably, 11-fold in liver as against the norm (35 rats), i.e. 29.2 mg % as against 2.60 mg.%; in muscle a 9-fold increase (30 mg. % in norm and 309 mg. % in exptl.). During protein-deficient diet the content of acetone bodies was considerably higher than during starvation, despite complete absence of carbohydrate supply, and even more strikingly shown was the decrease in glycogen during starvation. The coeff. expressing ratio of lipide P/cholesterol was 0.88 (20 rats) in the norm, which increased to 1.11 (65 rats) on a low-protein diet, i.e., in detd. by quantity of phospholipides and by simultaneous decrease in cholesterol content. The reverse phenomenon was noted during complete starvation, the ratio decreasing to 0.70, depending primarily upon phospholipides. Cholesterol fluctuations were normal. Total blood glutathione remained in the normal range, but the ratio between its various forms varied, the oxidized form increasing and the reduced form decreasing (30 exptl. rats, 17 of them controls). No.

5

1/2

3/2/50

ABBAKUMOVA - ZEPALOVA, G.M.
such changes were observed during starvation. Oxidation-reduction processes did not show quant. or qual. disturbances during complete starvation. A study of various metabolic indicators in humans suffering from protein deficiency and showing hypoproteinemia (extensive burns, inflammatory osteomyelitis, and others) has shown various disturbances, (protein, carbohydrate, and other indexes of metabolic disturbances) which have an effect upon the nervous system and upon neuro-humoral regulation, by acting on nerve receptors and centers which control physiol. processes. 2/2
Clayton F. Holway

ABAKUMOVSKIY, D.D., inzh.; VIKHMAN, Yu.L., inzh.; VODOVOZOV, A.I., inzh.;
ZORIN, R.P., inzh.; IGNATCHENKO, Ye.A., inzh.; LITINSKIY, M.E., inzh.;
SAZONOV, A.I., inzh.; FRITULA, V.A., inzh.; POMAZHOV, S.A., inzh.;
FRUKHTBEYN, L.I., inzh.; SAPOZHNIKOV, N.M., inzh.; MASYUK, A.I., inzh.;
YANKELEV, L.F., inzh.; BASHILOV, M.M., otv. red.; LATINSKIY, M.E., red.;
POLOSINA, A.S., tekhn. red.

[Handbook for buidlers and assemblers of the petroleum industry]
Spravochnik stroitelia-montazhnika nefianoj promyshlennosti. Mo-
skva, Gostoptekhizdat, 1946. 250 p. (MIRA 15:4)

1. Russia(1923- U.S.S.R.) Narodnyy komissariat nefyanoy promysh-
lennosti. Glavnoye upravleniye. 2. Narodnyy komissariat nefyanoy
promyshlennosti SSSR (for all except Bashilov, Latinskiy, Polosina).
(Petroleum industry)

S/184/60/000/004/018/02//XX
A104/A029

AUTHORS: Rozengard, Yu.A.; Abakumovskiy, D.D.; - Graduate Engineers

TITLE: Properties and Use of Magnesium Iron

PERIODICAL: Khimicheskoye Mashinostroyeniye, 1960, No. 4, pp. 12 - 14

TEXT: The authors state that at present the use of magnesium iron in oil refineries is limited to media with temperatures not exceeding 200°C and a pressure of 16 kg/cm². Installations operating in non-corrosive media up to 450°C are made of 20Л (20L) and 25Л (25L) carbon steels. X5M1 (Kh5M1), X58Л (Kh5VL) and X88Л (Kh8VL) chromium-molybdenum and chromium-tungsten steels are used in corrosive sulfuric media at 550 - 575°C and 1X18H9TЛ (1Kh18N9TL) steels in the same medium at 600°C. ~~Ципронефтемаш~~ carried out a number of tests with a view to replacing steel-cast oil installations by highly-resistant magnesium iron parts. Tests proved that σ_b and $\sigma_{0.2}$ of magnesium iron is higher than that of 25L steel. After graphitization tempering cast magnesium iron valves showed the following values at normal temperature: $\delta_s = 11.0 \div 14.0\%$ and $\sigma_b = 49 \text{ kg/mm}^2$. According to Reference 1, 4,000-h tests at 425°C established $\sigma_b = 20.8 \text{ kg/mm}^2$ and $\delta = 22.4\%$ for steel and 22.2 kg/mm² and 6.2% for ferritic magnesium iron, respec-

Card 1/3

Properties and Use of Magnesium Iron

S/184/60/000/004/018/021/XX

A104/A029

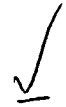
tively. Long-life tests were carried out on ferrite-perlite class magnesium iron at 400 and 450°C and 40, 35, 30, 25 and 20 kg/mm² stresses. Tested samples showed no signs of destruction at $\sigma_b = 30$ kg/mm² and 400°C after 1,300 h, at $\sigma_b = 25$ kg/mm² and 400°C after 1,700 - 2,000 h, at $\sigma_b = 20$ kg/mm² and 400 - 500°C after 1,050 - 2,100 h. These results satisfy TOCT (GOST) requirements in respect of carbon steel equipment. Corrosion-resistance tests were carried out in the Moskovskiy neftepererabatyvayushchiy zavod (Moscow Oil Refinery). Samples were placed in the upper rectifier column valve and exposed to gasoline gases, solar oil, hydrogen chloride and hydrogen sulfide for 2,000 h at 370°C and a pressure of 5 atm. Increased corrosion-resistance of ferritic magnesium iron is due to the absence of perlite and decreased inner stress. This type of cast iron showed a higher resistance than all other types as well as 30Л (30L) cast steel. Prolonged exposure to corrosive media results in the formation of a porous coating on steel and cast iron surfaces which accelerates their corrosion. The removal of this coating slows down considerably the corrosion of ferritic magnesium iron and steel and to some extent also the corrosion of perlite magnesium iron. A number of experimental magnesium iron shut-offs with a 100-mm passage diameter and 40 kg/mm² pressure were substituted for carbon steel parts in three not specified oil refineries in 1955 and showed no defects. At the same time the TsKB

Card 2/3

Properties and Use of Magnesium Iron

S/184/60/000/004/018/021/XX
A104/A029

armaturostroyeniya (TsKB of Equipment Design) in cooperation with the Leningrad-
skiy politekhnicheskiy institut (Leningrad Polytechnical Institute) tested the
suitability of magnesium iron for steam fittings. Tests showed that cast iron
containing spheric graphite is close to cast carbon steel and can be used for
steam fittings operating at temperatures of up to 425°C at 40 kg/cm² pressure.
There are 2 tables and 2 references: 1 English and 1 Soviet.



Card 3/3

ABAKUMOVSKIY, D.D.; ANASTAS'IN, V.F.; RATS, P.Ye.; SOKOLOVSKIY, S.M.;
SOLDATOV, K.N.; VRONSKIY, L.N., vedushchiy red.; TROFIMOV, A.V.
tekhn. red.

[New equipment used in the petroleum industry; 1961] Novoe neftiannoe
oborudovanie; 1961 god. Moskva, Gos. nauchno-tekhn. izd-vo nefi. i
gorno-toplivnoi lit-ry, 1961. 154 p. (MIRA 14:12)
(Petroleum industry--Equipment and supplies)

ABAKYAN, A. A.; BYKOVSKIY, A. F.

"Sovremennye predstavleniya ob anatomii virusov kak razvitiye idey D. I. Ivanovskogo o ikh korpuskulyarnosti."

report presented at Symp on Virus Diseases, Moscow, 6-9 Oct 64.

Institut epidemiologii i mikrobiologii im N. F. Gamaley AMN SSSR.

USSR/Metals - Aluminum, Welding, Properties Dec 51

"On the Effect of the Composition of Aluminum Alloys on Their Tendency to Crack Formation in the Process of Gas Welding," S. V. Abakyan, N. F. Iashko, Candidates Tech. Sci

"AvtoGen Delo" No 12, pp 7-9

Investigation of Al-Cu, Al-Si and Al-Sn systems revealed considerable decrease in tendency of alloys to cracking when alloy of same system but with increased amt of

200T100

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alloying element is used as addn in welding process. In this case, temp of complete melting is lower and mixing of weld metal with base alloy is less intensive, keeping comcn of weld metal more const and preventing formation of crysln cracks. Article is continuation of work by the authors in "AvtoGen Delo" No 10, 1951.

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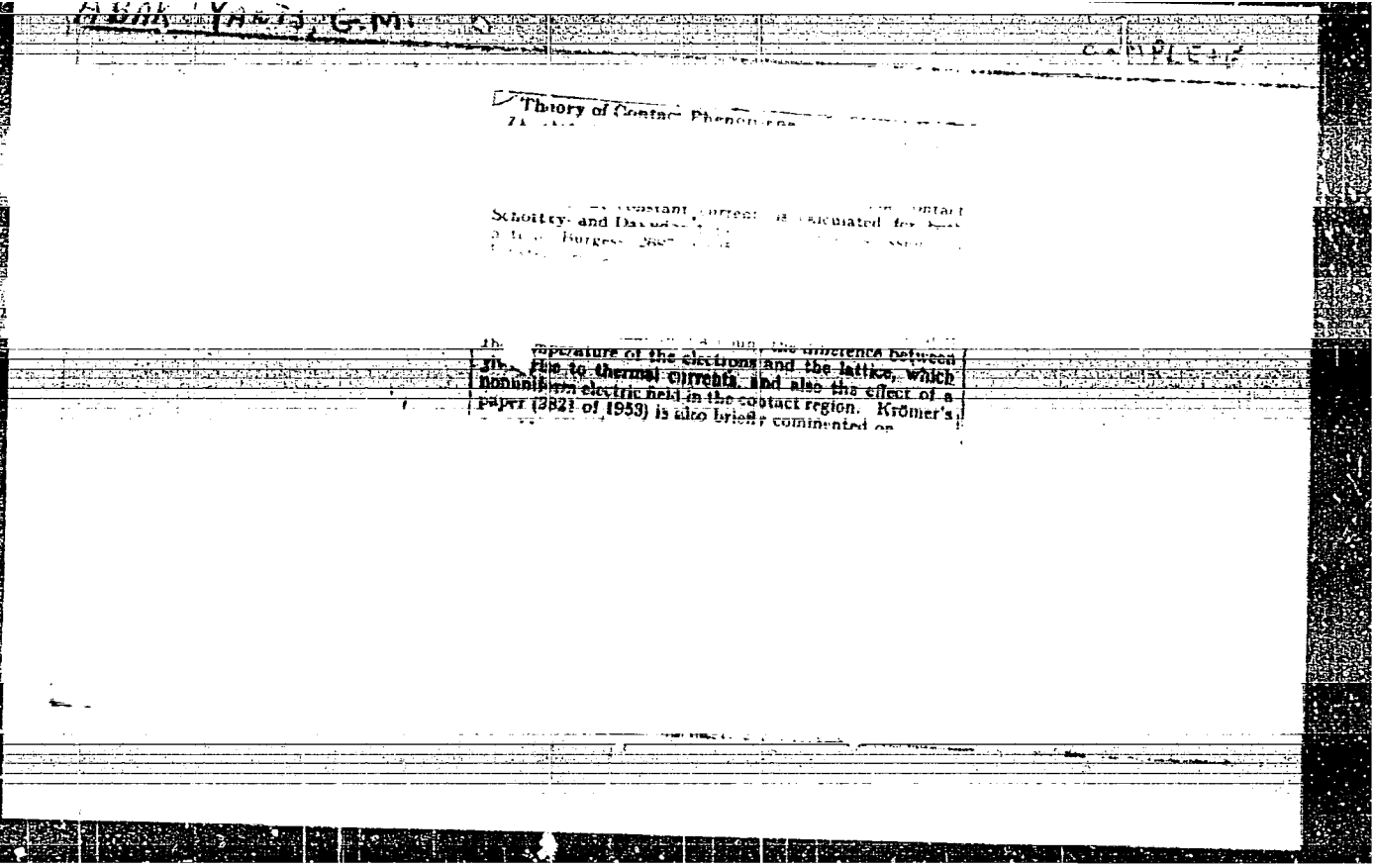
Alitizing of steel castings. Lit. proizv. no.9:48 S '61.
(Steel castings) (MIRA 14:9)

HBFK Yantis, G.M.

4 pages
2

1931
Theory of Equations of Transport in Strong
Electric Fields

... the thermoelectric and galvanomagnetic effects
These include the Thomson, Seebeck, Peltier and Nernst
EM phenomena effects. Effects due to bipolar conduction
of the semiconductor, including the photomagnetic
effect, are also considered.



AZIZOV, M.; ABAK'YANTS, G.M.

Theory of the origin of the photoelectromotive force at the
p - n junction in semiconductors. Izv.AN Uz.SSR. Ser.fiz.-
mat. nauk no.1:15-22 '60. (MIRA 13:6)
(Semiconductors) (Photoelectricity)