25(1,5)

PHASE I BOOK EXPLOITATION

SC... ...

Moscow. Dom nauchno-tekhnicheskoy propagandy imeni F.E. Daviante kusa

Novoye v tekhnologii vysokoproizvoditel noy listovoy shtampovki; sbornik trudov konferentsii (New Features in the Methods of High-productivity Sheet Metal Stamping; Collection of Co..ference Transactions) Moscow, Mashgiz, 1959. 228 p. 8,000 copies printed.

Sponsoring Agency: Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy RSFSR.

Resp. Ed.: V.T. Meshcherin, Doctor of Technical Sciences, Professor; Eds.: V.D. Golovlev, Candidate of Technical Sciences, Docent, and Ye.N. Lanskoy, Candidate of Technical Sciences, Docent; Ed. of Publishing House: G.N. Sokolev; Tech. Ed.: B.I. Model'; Managing Ed. for Literature on Heavy Machine Building (Mashgiz): S.Ya. Golovin, Engineer.

PURPOSE: This collection of papers is intended for engineers and technicians in sheet metal stamping. It may also be useful to

Card 1/9

New Features (Cont)

30V/_.3"

students of vuzes and tekhnikums.

COVERAGE: This collection deals with the design and features of some current problems in sheet metal stamping. Also alsousses are processing methods still in the experimental stage. Secretal articles deal with the mechanization and automation of stamping processes and describe recently developed methods, such as explosion forming, the use of automatic rotary transfer the and press blocking with the use of radinactive isotopes. personalities are mentionel. References follow several the articles.

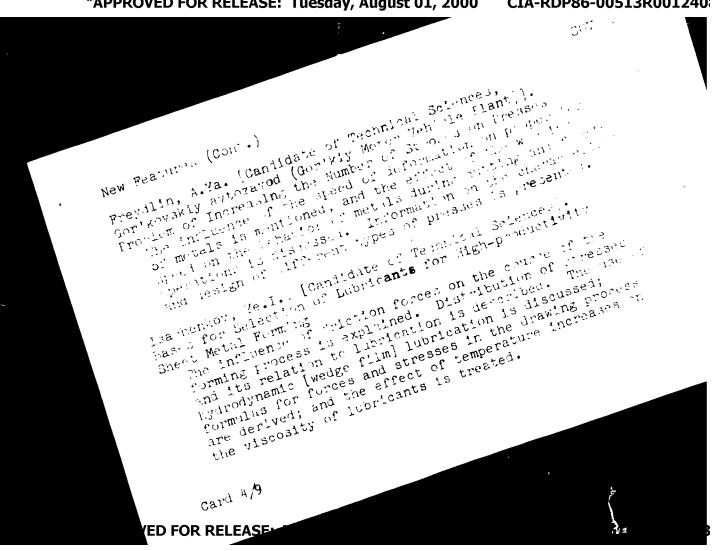
TABLE OF CONTENTS:

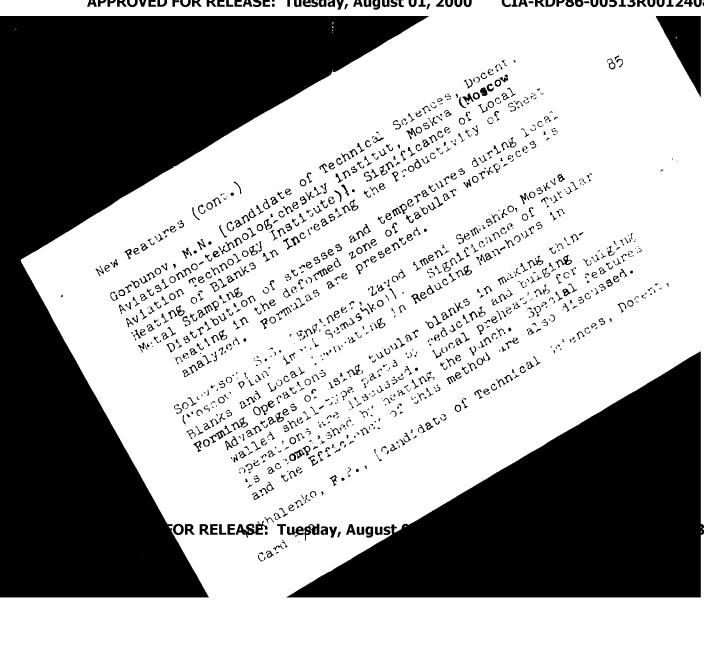
Meshcherin, V.T., [Doctor of Technical Sciences, Professor, Stankoinstrumental nyy institut, Moskva (Moscow Machine Tool and Instrument Institute]. Basic Manufacturing Problems of the Near Future

. 2. .-Card 2/9

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The author discusses labor productivity, shapes of work
                    pieces, the materials used, stamping operations and technical production lines working speed and the correct management of the correct management of
                     preces, the materials used, stamping operations and teens of head operational time.
New Features (Cont.)
          Pikhtovnikov, R.V. [Doctor of Technical Sciences, Professor, Kharikovskiv aviatsionny institut (Kharikov Aircraft Institut
          KIKILDVILKOV, M.V. [DOCTOR OF TECHNICAL Sciences, Professor, Institut (Kharikov Aircraft, Institut)].

Kharikovskiy aviatsionnyy institut (Kharikovskiy aviatsionnyy for Drawing and Rooming Medium on Use of an Explosive Wave for Drawing and Rooming Medium on Use of an Explosive Wave for Drawing and Rooming Medium on Use of an Explosive Wave for Drawing and Rooming Medium on Use of an Explosive Wave for Drawing and Rooming Medium on Use of an Explosive Wave for Drawing and Rooming Medium on Use of an Explosive Wave for Drawing and Rooming Medium on Use of an Explosive Wave for Drawing and Rooming Medium of the Use of an Explosive Wave for Drawing and Rooming Medium of the Use of an Explosive Wave for Drawing and Rooming Medium of the Use of
            Use of an Explosive Wave for Drawing and Forming Medium And
                                  The author discusses experimental fabrication of shall w
                                 dish-type parts of an explosive wave caused by gunpown.
              Large Parts in Small-scale Production
                     Koshkin, L.N. [Candidate of Technical Sciences]. New Possibilities in the Development of Sheet Metal Stamping In Connection With the Head of Automatic Retains
                       in Connection With the Use of Automatic Rotary Transfer
                                                                                                                                                                                                                                                                                                                                                                                                        17
                                           Mechanical and hydraulic rotary transfer machines are
                                              mechanical and nyurautic rotary transfer machines are useribed. The frexhollity of these machines allows
                                              facility of control, and emonth transition into fully and
                                               ment in the process, and smooth transition into fully auto-
                          Machines
                                                matic lines.
                                 Card 3/9
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New Features (Cont.) Politekhnicheskiv institut, s. Gor'kiy (Gor kiy Poly-

technical Institute)]. Special Features of mianking With in Increased Number of Strokes The author describes research done on this process in

the cold-stamping separatment of the "prop" plant and the laboratory of the Department of Mask nerv and Medica Forming, GPI imeni A.A. Zhdanov. A.A. Samovlov, teparis ment head, and N.S. dilevich, process engineer, the part the investigations made at the "engin" Plant, and Y.V. Somenov, Candileus of Tachnical Printes, proliferated in the work done at GPI. The armille resolution about the contract of the contract changes in punch and the dimensions and observances in relation to changes in the number of strokes per minute and the number of parts cut out. Optimum "learances, minimum resistances, punching forces and energy consum; tion at various working speeds are discussed.

Card 6/9

.1 2294 New Features (Cont.) Artes, A.E. [Engineer, Moscow Machine Tool and Instrument Institutel. Press Blocking With the Use of Radioactive 1.48 Isotopes The article presents information on the use of betaradiation to stop presses in processes where two or more blanks are being fed, and on the principle of operation and the description of a beta-ray electronic relay. Suggestions for placing the emitter and receiver are given, and safety measures are discussed. Artem'yev, S.I. [Engineer, Gorkiy Motor Vehicle Plant]. New Features in the Automation of Sheet Metal Stamping at 160 the Gorkiy Motor Vehicle Plant The article discusses devices for automatic removal of formed parts from the press, devices for automatic feeding of sheet metal into the die, and devices for complete automation of the forming process. Card 7/9

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

New Features (Cont.) SOT 2294 Nikolayev, V.V., and B.V. Sorokin [Avtozavod imeni Likhacheva, Moskva (Moscow Motorn Vehicle Plant imeni Likhaches : . . Experience of the Motor Vehicle Plant imeni-Likhachev with High-productivity Progressive Die Sets 169 Compound, combination, and progressive die sets with rectilinear and circular feeding motion of blanks are described. Mechanization of feeding and removal of stamped parts and scrap are discussed. Filina, I.S. [Engineer, Zavod "Krasnava Zarya," Leningrad (Leningrad "Red Sunrise" Plant)]. Transfer Machine for Mixing Contact Springs 199 Arrangement and operation of a universal transfer machine for making springs for flat relays is described. Reductions in costs, time, and man-hours are shown. Card 8/9

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217

New Features (Cont.)

Konovalova, I.I. [Engineer, Zavod "Metalloizdeliye", Leningra! (Leningrad Metal Products Plant)]. Transfer Machines for Fabricating processes and making Safety-razor Blades

Fabricating processes and machinery for automatic lines are described, and information on tool life, heat treatment, grinding, and packing of blades is given.

Lanskoy, Ye.N. [Candidate of Technical Sciences, Docent, Moscow Machine Tool and Instrument Institute]. Selection of a Crank Press for Required Force and Work Parameters. The author discusses flywheel effect, the meaning of nominal force (capacity), the magnitude of force at various angles of the crank, the work delivered by motor and flywheel, and the work of deformation. Recommendations for selecting the proper press for a given stamping operation are presented.

AVAILABLE: Library of Congress

Card 9/9

GO:ajr 10 21-59

· TECHNOLOGICAL

VOROB'YEV, S.A., kend.tekhn.nauk, otv.red.; KONOVALOV, A.I., inzh., red.;
MAKARENKO, V.P., inzh., red.; MIKHEYEV, M.V., inzh., red.; HOVIKOVA,
N.T., inzh., red.; PIKHTOVHIKOV, R.V., prof., red.; POILOZHENOV,
P.M., inzh., red.; SEMKO, M.F., prof., red.; TOROPOV, A.I., inzh.,
red.; TSERKOVNYY, I.M., inzh., red.; CHERKASHIN, I.P., inzh., red.;
SHEVCHENKO, M.G., tekhn.red.; LIMANOVA, M.I., tekhn.red.

[Mechanization and automation of production processes; proceedings of the city technical conference] Mekhanizatsiia i avtomatizatsiia proizvodstvennykh protsessov; sbornik materialov gorodskoi tekhnicheskoi konferentsii. Khar'kov, Khar'kovskoe knizhnoe izd-vo, 1959. 295 p. (MIRA 13:1)

1. Kommunistiche skaya partiya Ukrainy. Khar'kovskiy gorodskoy komitet. 2. Nachal'nik Ukrainskoy proyektno-konstruktorskoy kontory "Prommekhanizatsiya" (for TSerkovnyy).

(Automation) (Technological innovations)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

The second secon	A MINISTER STREET
ACC NR: AP6027486 (N) SOURCE CODE: UR/0418/66/000/003/0	0005/0008
AUTHOR: Pikhtovnikov, R. V. (Doctor of technical sciences)	/
ORG: None	
TITLE: Industrial experience and future developments in explosive sheet	forming S
SOURCE: Tekhnologiya i organizatsiya proizvodstva, no. 3, 1966, 5-8	, ,
TOPIC TAGS: metal forming, reliability, explosive forming, explosive chation	rge, detona-
ABSTRACT: The author describes various types of explosive forming units cent improvements. Among these is the use of a perforated pipe placed armeter of a water container and pumping compressed air through the pipe at	ound the peri-
ing of the container by 40-50%. This practice makes it possible to use the containers and improve their reliability. Another development when	e metal cas- hinner walls
cussed by the author is the use of a sloping container wall for placing dithe container. A dolly takes a die, weighing from 40 to 70 tons, along the walls to the bottom of the container and passes over a concrete column.	he sloping
lowered by several centimeters until its bottom rests on the column. Thus of the explosion is transmitted from the die to the floor of the container	s the force r by the dolly
Card 1/2	621.73.634

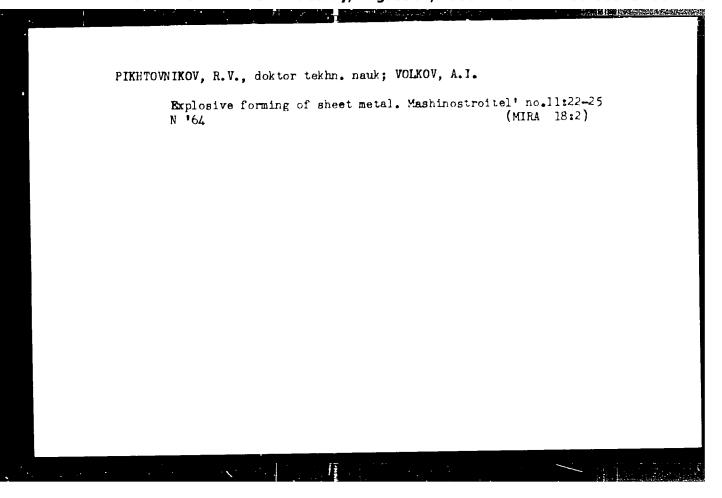
L 06370-67

ACC NR: AP6027486

and the concrete column. Such a procedure specis up explosive forming and makes it possible to handle parts up to 30 mm in thickness. Studies have shown that the use of the multiple impact method is very efficient in small-scale and mass production of parts. Its main advantage is that it eliminates extreme impact on container walls by using successive small charges for forming parts. Experience has shown that explosives with slow detonation are better suited for explosive forming. The use of slow detonation explosives produces a smaller peak load and effective explosion time is longer. It is recommended that ammonite should be used under industrial conditions instead of RDX or TNT. The reverse forming method is considered for large parts and the microbasin method for production of small parts. The microbasin method consists of placing a charge in a polyethylene bag with water on top of the part to be formed. Hot sheet explosive forming is also considered. This method is applied mainly to heavy gauge alloy steel sheets which cannot be formed by plastic deformation in the cold state. Orig. art. has: 5 figures, 1 formula.

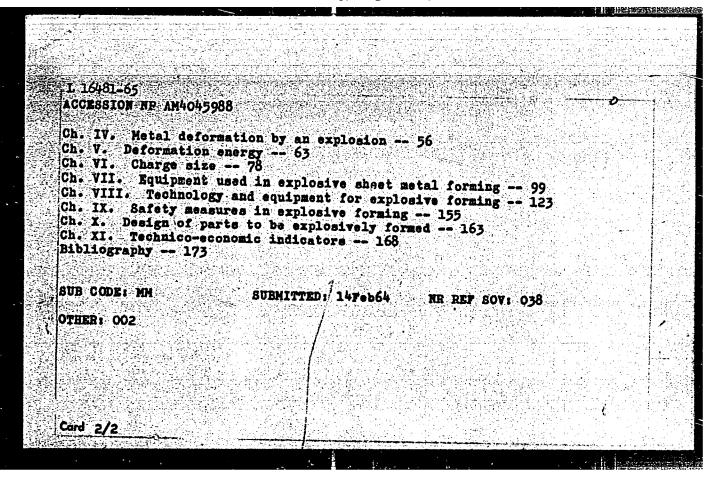
SUB CODE: 13/ SUBM DATE: None

Cara 2/2 /1/1



1.16481-65 EWT(m)/EWA(d)/EWP(t)/EWP(k)/EWP(b) Pf-4 JD/HW ACCESSION NR AM4045988 BUOK EXPLOITATION Pikhtovnikov, R. V.; Zav'yalova, V. I. 3-1 Explosive forming of sheat metal (Shtampovka listovogo metalla vary vom), Moscow, Izd-vo "Mashinostroyeniye", 1964, 173 p. illus., biblio. Errata slip inserted. 4,000 copies printed. TOPIC TAGS: explosive metal forming PURPOSE AND COVERAGE: The book presents methods of calculating and designing technological processes and equipment. It describes the processes of explosive forming of sheet metal. The materials in the book are published for the first time in a systematized form. The book is intended for engineers, technicians, foremen working in sheet metal forming. TABLE OF CONTENTS: Introduction -- 3 Ch. I. History of explosive sheet metal forming -- 5 Ch. II. Forming processes -- 14 Ch. III. Physics of the explosion and the external loads -- 32 Cord 1/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240



1_20213-65 EWT(m)/EMA(d)/EWP(t)/EWP(k)/EWP(b) Pf-4 ASD(m)-3 JD/HM ACCESSION NR: AP4049462 8/0117/64/000/011/0022/0025

AUTHORS: Pikhtovnikov, R. V. (Doctor of technical sciences); Volkov, A. I.

TITLE: Explosive forming of sheet metal

SOURCE: Mashinostroitel!, no. 11, 1964, 22-25

TOPIC TAGS: explosive forming, sheet metal forming, metal forming

ABSTRACT: Explosive forming of sheet metal using different combustible products and fluids to transmit the forming energy is discussed briefly. Explosive forming using high energy explosives and water to transmit the blast wave is treated in more detail. The following working equations are given (without derivation) for an explosive-forming apparatus similar to the one shown in Fig. 1 on the Enclosure using protyl explosive: the pressure for a concentrated (spherical) charge is given by

 $\rho_m = 530 \left(\frac{1}{g^{\frac{1}{3}}}\right)^{1.09} \frac{\text{kg/cm}^2}{[\kappa z]e^{\mu z}]},$

Card i/L

1 20213-65 ACOESSION NR: APholiph62	
for a linear charge by	$720 \left(\frac{\frac{1}{2}}{R} \right)^{0.72} \frac{kg/cm^2}{[\kappa z] \epsilon_s k!^2};$
(where C = charge weight an kg. o	
$p = p_{m^*} - l/0$	
where $\frac{1}{a^3}\left(\frac{R}{a^3}\right)^{9,17}$ (Abo) an	$\frac{1}{6} = 0,10 \cdot 10^{-3} q^{\frac{1}{8}} \left(\frac{R}{\frac{1}{q^2}}\right)^{0.6} $ $\frac{1}{\sqrt{g^2}} \left(\frac{R}{\sqrt{g^2}}\right)^{0.6} \left(\frac{R}{\sqrt{g^2}}\right)^{0.6} $
for a concentrated and linear changes for a concentrated and linear ch	rge respectively. In water, the energy transfer
$\int E_1 = 95 \frac{O}{R^2}, \qquad S_1 = 186$	$\frac{1}{N^{\frac{1}{2}}} \left(\frac{1}{2} \right)^{0,0}$ $\frac{1}{N^{\frac{1}{2}}} \left(\frac{1}{R^{\frac{1}{2}}} \right)^{0,0}$ $\frac{1}{N^{\frac{1}{2}}}$
Card 2/14	

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ACCESSION NR: APLOL9462

and the weight of the required explosive is

$$G = \left[\frac{a_{p} b_{0} R^{1.5}}{1 - v^{2}} N \right]^{0.6} \underbrace{\text{kg7}}_{\text{kg7}} \qquad q = \left[\frac{a_{p} b_{0} R^{0.55}}{1 - v^{2}} M \right]^{0.6} \underbrace{\text{kg/m7}}_{\text{kg/m7}}$$

where $a_F = A/F$; A = total deformation energy (cm); F = wetted surface of blank (cm²); $\delta_0 = thickness$ of metal sheet; N and M = coefficients depending on metal properties; V = wave reflection coefficient. A table of N, M and V is presented. The total deformation energies A required for producing cylindrical and spherical shapes are derived in terms of geometrical parameters and a number of tabulated constants. Orig. art. has: 21 formulas, 7 figures, and 2 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 01

SUB CODE: 1B MM

NO REF SOV: 000

OTHER: 000

Card 3/4

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

L 20213-65 ACCESSION N	R: AP4049462					NCLOSURE:	
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		Basin with b	医多数层 的复数电影	The Court of the			
	l- basin wall; 5- collector w	2- air tub ith perforat	ing; 3- ex ions.	plosive;	4- dle;		
Card 4/4							

S/137/61/000/012/113/149 A006/A101

AUTHORS:

Lysenko, M.D., Pikhtovnikova, L.R.

TITLE:

Ultrasonic control of weld joint quality in pipelines

FERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 67, abstract 12E416 (V sb. "Energ. str-vo", 1 (II), Moscow-Leningrad, 1959,

116 - 120)

TEXT: Information is given on a method of ultrasonic control of high-pressure pipeline welded butts. The method was proposed by TsNITTMASh and improved by the laboratories of the "Donbassenergo" administration and the "Teploenergomontazh" Trust. It is intended for pipes with 12-40 mm thick walls. The metallographical evaluations are in a 85% agreement with ultrasonic flaw detection. The ultrasenic method makes it possible to reveal the most dangerous defects such as cracks, and to observe the development of defects during operation. It is most efficient.

Ye. Terpugov

[Abstracter's note: Complete translation]

Card 1/1

85137

18 8100 2708

5/104/60/000/009/001/005 E073/E335

AUTHOR:

Pikhtovnikova, L.R. Engineer

TITLE:

Ultrasonic Quality Control of Welded Joints by the

PERIODICAL: Elektricheskiye stantsii, 1960, No. 9,

TEXT: In the first part of the paper the disadvantages of direct-contact methods of ultrasonic inspection are discussed, the main one being that only a fraction of the generated ultrasonic energy penetrates into the component. By immersion into a liquid the loss of ultrasonic energy can be reduced very considerably. Particularly, provision of a local thin liquid layer is advantageous, the function of which is solely to act as an acoustic contact medium. In particular, the merits of a system described in the USA patent No. 2852707, 1958, of C.G. Kaehms are emphasised. In this system the dip probe can operate in the horizontal as well as in the vertical position or through a stream of liquid which carries ultrasonics into the component to be investigated. On the basis of these ideas card 1/3

85137 5/104/60/000/009/001/005 E073/E335

Ultrasonic Quality Control of Welded Joints by the Immersion

of high-pressure steam piping (273 x 30 mm) consists essentially of a water container with a hollow bottom (the bottom is formed by the section of the pipe surface) which is pressed onto the pipe to be investigated. This water container also contains two dip probes The equipment is designed for use on pipes of diameters exceeding 133 mm and there are certain components which have to fit the particular pipe diameter The entire system is designed so that it can move along the whole circumference of the pipe. Reciprocal movement is effected by means of a semimechanised system. The angle of the dip probes can be varied between 30 and 50° to the vertical, which enables searching for defects in all the necessary directions The system enables semi-automatic detection of defects in weld joints of piping. The obtained oscillograms are similar to that obtained in contact ultrasonic defectoscopy work However in the case of the immersion method, there are one or two Card 2/3

85137

S/104/60/000/009/001/005 E073/E335

Ultrasonic Quality Control of Welded Joints by the Immersion Method

additional pulses which are reflected from the top surface of the component. In an editorial note it is mentioned that the contents of the article prove that quite a lot of work has still to be done in perfecting this method of "immersion" with the use of very small quantities of liquid. There are 3 figures and 3 references — 1 German and 2 Soviet

Card 3/3

PINHTOVNIKOVA, L.R., inzh.

Ultrasonic checking of welded junctions by use of a method which involves immersion. Elek. sta. 31 no.9:13-16 S '60. (MIRA 14:10) (Pipelines-Welding) (Ultrasonic testing)

THE Bright School Control

LYSENKO, M.D.: PIKHTOVNIKOVA, L.R.

methods for ultrasonic determination of the character of defects in welded joints of pipes and cast parts of steam supply lines. Zav.lab. 25 no.7:816-818 159. (MIRA 12:10)

1. Gosudarstvenmyy trest "Teploenergomontazh". (Welding-Testing)

28 (5)

AUTHORS:

Lysenko M D Pikhtownikowa, L. R. SCV/32-25 7 - 7/6;

TITLE:

Ourrasm wasted for Desermining the Companier

of Defects in Welding Seams of Tubes and Cast Pipes for Steam Conduction (Metodika opredeleniya ul'trazvukom kharaktera defektor v svarnykh soyedineniyakh trub i litykh detaley

pareprovodor)

PERIODICAL:

Zavodskaya laboratoriya (1959) Vol. 25. Nr. 7 p_{T} 800

(USSR

ABSTRACT:

A comparison was made between the oscillograms obtained by the crack detector (CD) during the ultrasonic control of faulty welding seams of high pressure pipes, and the appearance of defects metallographically found after cutting the welding seams. About 100 samples with different faults were examined Ultrasonic control was carried out with (CD) UZD 7N according to the method of the TsNllTMASh (Ref 1) and by means of prismatic feeler gauges (FG) under an angle of 40°. The samples of steel 20, 12KhM and 12KhMF were examined at frequencies of 1.8 megacycles. The method of examination consisted in principle in the fact that ultrasonics either were completely re

Card 1/2

flected by the faulty point which caused an impulse or it was

Ultrasonic Method for Determining the Character of Defects in Welding Seams of Tubes and Cast Pipes for Steam Conduction

307/32 25-7-47/20

only partly reflected, so that a ray of the gasket was reflected and two impulses occurred on the screen. Points not welded through; or enclosed slags caused further impulses. From the explanations of the obtained oscillographs the fact results that a "splitting" of impulses into several small impulses indicates the presence of cracks in the welding seam. The test method described in the present paper was applied for the control of welding seams in steam pipes and tubes with walls 18 - 36 mm thick. There are 2 figures and 1 Soviet reference

ASSCCIATION:

Gosudarstvennyy trest "Teploensrgomontazh" (State Trust "Teploenergomontazh")

Card 2/2

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LYSENEO, M.D., inzh.; PIKHTOVNIKOVA, L.R., inzh.

Ultrasonic control of welded pipe joints. Energ. stroi. no.1:116-120
(59. (MIRA 13:2)

1.Trest "Teploenergomontazh".
(Pipe--Welding)
(Ultrasonic waves--Industrial applications)
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Bud and a second

EPIKHU, E. R.

Cand Biol Sci - (diss) "Propagation of commercial fishes of Lake Vyrts'yarv." Tartu, 1961. 19 pp; 2 pp tables; (Academy of Sciences Estonian SSR, Division of Biological and Medical Sciences); 300 copies; free; list of author's works on p 19 (11 entries); (KL, 5-61 sup, 185)

S 254 62 000 007 002 003 1025 1225

AUTHOR

Pikhtovnykov, R.

TITLE

Treatment of metals by explosion

PERIODICAL

Nauka i zhittya, no. 7, 1962, 13-14

TEXT: A procedure to replace the usual method of pressing, hammering etc. is for the apparatus, containing the matrix, the object of stamping, and the plate on which it reposes etc. to be submerged in a reservoir full of water. An explosion is then made with a high-explosive, the shock-wave producing a perfect stamping Between the object and the matrix there must be vacuum. Advantages: noiseless, gases are dissolved in the water and the atmosphere is not polluted, elimination of accidents to service personnel and people in the vicinity. The matrix can be of any size, allowing stamping of large objects. The installation is not expensive, as the pressure can reach 200 atmospheres. It is very effective in cutting iron plates. A combination is made of a gun serving for explosion with two knives, above and below the object. Another application of importance is the drilling of holes in sheets, ships etc. Also applicable in machine construction.



Card 1.1

KOROTICH, A.S., dotsent: SHCHERBAK, Yu.N., nauchnyy sotrudnik; KONONYUK, G.Ya.: PIKHULYA, K.F.; ROTOV, I.V., kand. veter. nauk; LEDIN, V.Ye.; KURAKINA, T.A.

Analysis of the vaginal mucus in cattle as a method for diagnosing brucellosis. Veterinariia 39 no.10178-86 0 62.
(MIRA 1616)

1. Kiyevskiy nauchno-issledovatel skiy institut epidemiologii i mikrobiologii (for Korotich, Shcherbak). 2. Done tskaya oblastnaya veterinarno-bakteriologicheskaya laboratoriya (for Kononyuk). 3. Donetskaya oblastnaya sanitarno-epidemio-logicheskaya stantsiya (for Pikhulya). 4. Dal nevostochnyy nauchno-issledovatel skiy veterinarnyy institut (for Rotov). 5. Respublikanskaya veterinarno-bakteriologicheskaya laboratoriya Ministerstva sel skogo khozyaystva UkrSSR (for Ledin). 6. Zaveduyushchaya serologicheskim otdelom L vovskoy oblastnoy veterinarno-bakteriologicheskoy laboratorii (for Kurakina).

(Brucellosis in cattle)

(Vaginal smears)

THE PERSON NAMED IN

PIKHURKO, S.V. (L'vov, ul. Lysenko, d.46, kv.8)

Galculous amuria; based on material from Lavov Medical Institute.
Nov.khir.arkh. no.2:18-20 Mr.Ap '58 (MIRA 11:6)

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

L 29921-65

ACCESSION NR: AP5003855

5/0106/65/000/001/0067/0072

AUTHOR: Agapov, M. V.; Pikhuta, A. V.

B

TITLE: Enhancing the efficiency of a semiconductor voltage stabilizer with a parallel regulating element

SOURCE: Elektrosvyaz', no. 1, 1965, 67-72

TOPIC TAGS: voltage stabilizer, semiconductor voltage stabilizer

ABSTRACT: Characteristics of semiconductor voltage stabilizers with a parallel-connected reactive-ballast impedance are considered. The circuits are suitable for output voltages under 40-50 v and slightly fluctuating load currents. Formulas for the overall efficiency of a stabilized rectifier with a resistance, an inductance, or a capacitance as the ballast element are developed. The voltage stabilization is possible without any ballast element, using the internal impedance of the rectifier instead. A reactive ballast element enhances the overall

Card 1/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

L 29921_65 ACCESSION NR: AP5003855 efficiency: Orig: art; has: 5 figures and 13 formulas; ASSOCIATION: none SUBMITTED: 02Jan64 ENCL: 00 SUB CODE: EC NO REF SOV: 003 OTHER: 000				# 10 = 1 10 20 2 1 To # 10 1
ACCESSION NR: AP5003855 efficiency. Orig. art; has: 5 figures and 13 formulas. ASSOCIATION: none SUBMITTED: 02Jan64 ENCL: 00 SUB CODE: EC				
efficiency. Orig. art. has: 5 figures and 13 formulas: ASSOCIATION: none SUBMITTED: 02Jan64 ENCL: 00 SUB CODE: EC			NR: AP5003855	
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Card 2/2				Card 2/2

AGAPOV, M.V.; PIKHUTA, A.V.

Protection of the transistors of transistor voltage stabilizers using silicon stabilotrons. Elektrosviaz' 18 no.3:38-51 Mr '64. (MIRA 17:4)

BOJ, Ewa; PIKIEL, Leonard

Contribution to pathogenesis of endocardial fibroelastosis in children. Acta biol. med. (Gdansk) 8 nc.ltl-9 *64

1. Z Zakladu Anatomii Patologicznej Akademii Medycznej w Gdansku (Kierownik: prof. dr. Wilhelm Czarnocki).

TENCZYNSKI, Leon, MALECKA-DYMINCKA, Stanislawa; NIELUBSZYC, Stanislaw, PIKIEL, Leonard.

Three cases of endocardial fibroelastosis in adolescents. Pol. arcn. med. wewnet. 3/, no.31373-382 164

1. Z II Kliniki Chorob Wewnetrznych AM w Gdansku (kierownik: prof.dr.med. J.Penson); z I Kriniki Chorob Dzieciecych AM w Gdansku (kierownik: prof. dr.med. K.Erecinski) z Zakladu Anatomii Patologicznej AM w Gdansku (kierownik: prof.dr. med W.Czarnocki [deceased]).

KONOPA, Jerzy; LEDOCHOWSKI, Zygmunt; NAZAALNICZ, Tereac; FALKOWSKI, Leonard; STENZEL, Jan; PIKILL, Leonard

Studies on antineoplastic properties of Poria obliqua. I. General data and in vitro studies. Newstwory 11 no.3/4:3 3-400 161.

1. Z Katedry Technologii Srodkow Leczniczych Politechniki Gda malej Kisrownik: prof. dr Z. Ledochowski Z Zakladu Anatomii Patelogicznej Akademii Medycznej w Gdansku Kierownik: prof. dr med. W. Czarnocki Z Pracowni Nr 8 Zakladu Syntezy Ordanicznej PAN w Gdansku Nierowik: prof. dr Z. Lelochowski.

(A.TIMLOPLASTIC AGENTS pharmaccl) (FU.GI)

NAZAHEWICZ, Teresa; Ledochowski, Zygmunt; Kohora, Jerzy; ST.WZEL, Jan; PAKLES, Leonard; FALKOWSKI, Leonard; WISNIEWSKI, Henryk

Studies on antineoplastic properties of Poria oblique II. It will on the effect of Poria obliqua on the growth of transplanted two rein animals. Newstwory 11 no.3/4:401-411 161.

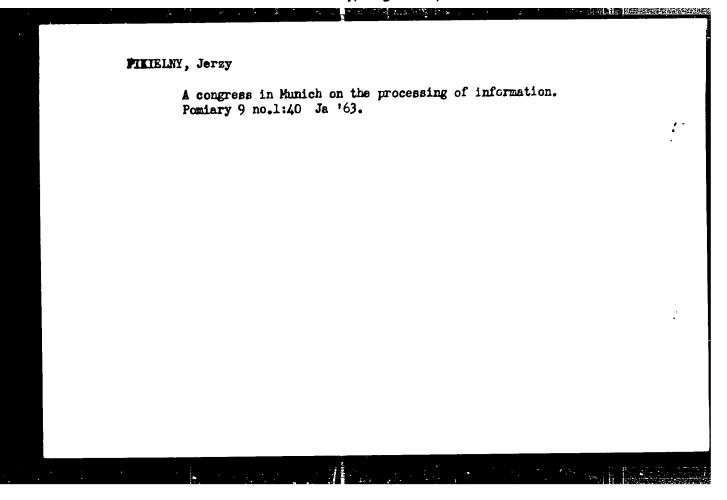
1. Z Zakladu Anatomii Patologicznej Akademii Medycznej w Gdaisku Kierownik: prof. dr med. W. Jzarnocki z Katedry Technologii Srockow Leczniczych Politechniki Gdanskiej Kierownik: prof. dr Z. Ledochewniki z Praccwni Mr 8 Zakladu Systezy Organicznej Polski j Akademii Kauk Kierownik, prof. dr Z. Ledochowski.

(ANTINEOPLASTIC AGENTS pharmacol) (FUNGI)

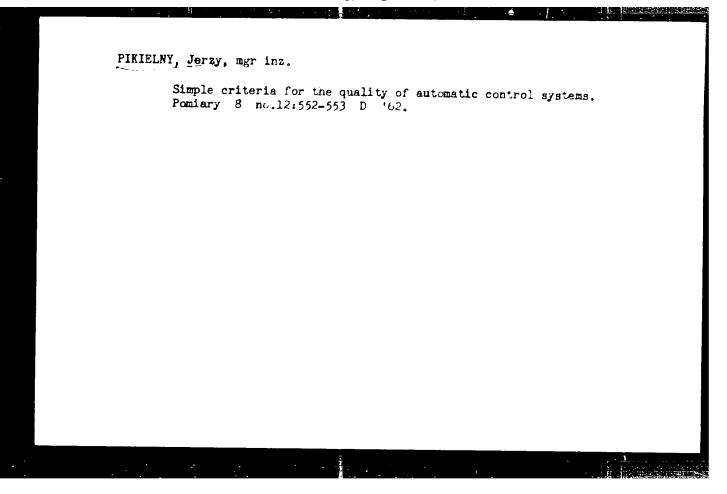
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1. Z Zakladu Anatomii Patologicznej Akademii Medynymej . har. . (Kierownik: prof. ar. med. W. Czarnowki [deceased]).

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- 3-7-1 000/012/001/002

AUTHOR:

Pikiciny, strop, and a soliteering

TITLU:

ar Alega Systems and orange control

PERIODICAL:

Formary, with arm of strolle, me. 12, 1962, 552-503

TEXT: The auto to the answer review of automatic control system error criteria a. who is a ransient overshoot and settling time. The performance of the performance o v. 8, 1952, 22) is considered in a tall and is stated to be rather primitive and non-selective, essecially so when applied to higher order systems. The author that it to chares a new performance criterion, of the overshoot area well deal type ω_{i} at ω_{i} to ω_{i} and ω_{i} , where t_{e} max is the instant of the expression. We states that the "weighting" results in a small ω_{i} are the third existing the states of the state "weighting" results in a smaller overshoot and that this criterion, being more selective, is nevertheress as simple as S_1 . The criter-Card 1/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

Simple performance criteria ... -//034/62/000/612/001/002 5201/5308

ion S₂ is used for the majorithm of the normalized damping coefficient of a 2nd order system, the result differing little from those obtained by other rethness. There are 9 figures.

Card 2/2

27025 P/021/61/000/008/002/002 D250/D302

9,7000

AUTHOR: Pikielny, J.

TITLE:

Applying a differential equation analyzer for tests of

automatic regulation processes

PERIODICAL: Przeglad elektrotechniczny, no. 8, 1961, p 343-345

TEXT: The article describes transformations necessary in preparing a differential equation for solution with the aid of a differential equation analyzer, gives a calculation example of a turbine revolution speed regulation system and lists the preparation and calculation procedures with the ARR electronic analyzer. The principles of preparing a problem for solution by means of the ARR are discussed. The ARR (differential equation electronic analyzer) has been in operation at the Zakład aparatów matematycznych Polskiej Akademii Nauk (Computer Department of the Polish Academy of Sciences) since June 1954. In the ARR the independent variable is time t. Each dependent variable produces a voltage line on the screen of an oscilloscope, whose grid permits

Card 1/5

27025 P/021/61/000/008/002/002 p250/p302

Applying a differential...

the reading of numerical values of a function. The maximum voltage change permitted by distortion constitutes a unit of the dependent variable of the analyzer. On the screen, this corresponds to a line distant 10 cm from the zero level. The voltage changes periodically; the change period is T+T; the T interval facilitates proper solution of the equation. A 20 cm section on the screen corresponds the interval T. The machine is prepared for the next solution in intervals $\mathcal T$. Transformation of the independent variable: Assuming that T t, the time unit of the machine equals a time unit of the equation. In order to extend or reduce the time interval of the solution observation, the following transformation is performed: T the time α_t is



the dimensional coefficient of the time scale with the dimension machine time unit equation time unit.

Assuming the designations. $p = \frac{d}{dt}$ (2)

 $P = \frac{d}{d\overline{T}} \quad the \ relation \ is$

obtained Card 2/5

27025 P/021/61/000/008/002/002 D250/D302

Applying a differential...

 $p = \frac{d}{dt} = a_t \frac{d}{dT} = a_t P$ (3) Examples: if u = 20, then pu = 20; if T = 10t, then 10 Pu = 20 or Pu = 2. Transformation of the dependent variable. Apart from the time scale, the dependent variable must be transformed according to the following formula: $R = a_r r$ (4) On

equation recording in machine language, the ARR is capable of solving such differential equations which can be set apart with respect to the highest derivative and which can be recorded with the aid of the ARR operations. The ARR has addition, integration and multiplication circuits and function generators which facilitate the performance of complex and non-linear functions. On the choice of time scale and scale coefficients, the choice of the time-scale coefficient depends on the period of time in which the solution is to be observed. The scale coefficient is selected according to the rule

ar = maximum expected value /r/ maximum factor at the output of the integration circuit in the ARR is

Card 3/5

27025 P/021/61/000/008/002/002 D250/D302

Applying a differential ...

250. The ARR is equipped with a photoelectric function generator. In order to perform the dependence y = /x/, when for instance $x = \sin Z$, it is necessary to cut out a y = /x/ shaped blind, where "x" is a linear function, and then accomplish superposition in such a way that potentials, whose difference is proportional to sin Z are applied to "v" axis plates deflection. Initial conditions of a differential equation are set directly on proper integration systems. The addition and integration systems work with an accuracy of about 0.5%; the multiplication systems and photoelectric function generators with an accuracy of the order of 1%. An example of ARR application for turbine regulation system tests is given. The principles of calculation procedures with the ARR can be determined as follows: a) The equation of the investigated system's dynamics is presented in a non-dimensional form; it is made sure that all coefficients are within the limits of c a a l. If not, they are divided by the largest of them. b) The independent variable is properly transformed and time scale chosen. It is ensured that all equation coefficients meet the conditions of point a) above. c) The

Card 4/5

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Applying a differential...

equation is recorded in machine language. d) An appropriately shaped blind is prepared for the function generator. e) The circuits are linked according to the scheme obtained in the equation record in machine language. f) Observation of the oscilloscope screen. There are 9 figures.

 \times

Card 5/5

PIKIKINY, J.

Application of the analyser of differential equations for studying automatic control processes. Przegl elektrotechn 37 no.8:343-345

A THE STATE OF THE STATE OF

(Automatic control)

PCLAND/Radio Physics - General

1-1

Abs Jour : Pef Zhur - Fizika, No A, 1958, No 18553

Author : Pikielny J.
Inst : Not Given

Title : Determination of Self-Oscillations by Means of the Harmonic

Linearization Method

Orig Pub : Prace Przemysl. inst. teledomum., 1957, 8, No 22, 15-24

Abstract: A method is developed for the linearization of the nonlinear

equations self-escillation as applied to nonlinear problems in automatic regulation. This method follows from the asymptotic methods of Krylov and Bogolyubov. The physical interpretation of the method is given, and specific examples are

discussed.

Card : 1/1

31

PIKIELNY. J.

Modern trends in the development of automatic control systems; nonlinear systems. p.492 (POMIARY, AUTOMATIKA, KONTROLA, Vol. 2, No. 12, Dec. 1956, Warsaw, Poland)

SO: Monthly List of East European Accessions (FEAL) LC, Vol. 6, No. 9, Sent. 1957, Uncl.

38158-65. EMT(d)/EMT(1)/EMP(=)/EMP(R CCESSION NR: AT5006318)/EMP(h)/EMP(l)/EMA(h) Pf-4/Peb P/2507/64/014/045/0053/0060
UTHOR: Krupa, W. (Krupa V.); Pikielny, J.	(Pilitallay. Ye.)
ITLE: A digital pseudoquadratic extrapol	ator 25
OURCE: Warsaw. Przemyslowy Instytut Tel	komunikacji. Prace, v. 14, no. 45, 1964,
3-60 OPIC TAGS: <u>digital control system</u> , digit ion	
BSTRACT: An extrapolator is defined as a the mathematical function of extrapolation osed, the so-called pseudoquadratic methoextrapolator after examining the most frequently interpolation formula, Taylor's series and of the proposed method is extrapolation in at the end of an extrapolation segment is function is a quadratic. In this case, the	d, as a basis for constructing such an uently used methods based on Newton's the least square method. The easence

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from a real value of the extrapolated function. A schematic diagram is given for such an extrapolator with a digital integrator. The operation and method of using such an extrapolator with a digital integrator. The operation and method of using such an extrapolator is recommended for use in digital continuous control is possible by trol systems and it is claimed that practically continuous control is possible by trol systems and it is claimed that practically continuous control is possible by trol systems and it is claimed that practically continuous control is possible by trol systems and it is claimed that practically continuous control is possible by trol systems and it is claimed that practically continuous control is possible by trol systems and it is claimed that practically continuous control is possible by trol systems and it is claimed that practically continuous control is possible by trol systems and it is claimed that practically continuous control is possible by trol systems and it is claimed that practically continuous control is possible by trol systems and it is claimed that practically continuous control is possible by trol systems.						
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GOL', M.; PIKIL'NER, D.

Use of ionites for water desalting. Mest.prom.1 khud.promys. 3 no.11230-31 D '62. (MIRA 16:2)

Glavnyy inzh. Leningradskoy zerkal'noy fabriki (for Gol').
 (Ion exchange)
 (Saline waters-Demineralization)

PIKIN, A. inzhener-polkovnik

Role and tasks of artillery recommaissance. Voen.vest. 43 nc.7: 46-48 Jl 163. (MIRA 16:11)

PIKIN, A.I.; VINNIK, N.Ye.

State artificial insemination stations and stations maintained jointly by collective farms in Poltava Province. Veterinaria 35 no.2:61-66 F '58. (MIRA 11:2)

1.Poltavskoye oblastnoye upravleniye sel'skogo khozyaystva.
2.Nachal'nik otdela veterinarii (for Pikin). 3.Glavnyy vetvrach otdela veterinarii (for Vinnik).

(Poltavs Province--Artificial insemination)

BORISOV, Ye.F., dots.; BREGEL', E.Ya., prof.; BUKH, Ye.M., dots.;

VASHENTSEVA, V.M., dots.; GOLEVA, Yu.P., kand. ekon. nauk;

GOLEVA, A.P., kand. ekon. nauk; DEMOCHKIK, G.V., dots.;

DONABEDOV, G.T., kand. ekon. nauk; YERMOLOVICH, I.I., dots.;

KALYUZHNYY, V.M., dots.; KORNEYEVA, K.G., dots.; KUZNETSOVA,

A.S., prof.; MI.MOSHNICHENKO, V.S., dots.; MYASNIKOV, I.Ya.,

kand. ekon. nauk; PIKIN, A.S., dots.; SIDOROV, V.A.; SMIRNOV,

A.D., dots.; SOLOV'YEVA, K.F., dots.; SOROKINA, I.F., dots.;

TARUNIN, A.F., kand. ekon. nauk; KHARAKHASH'YAN, G.M., prof.;

MENDEL'SON, A.S., red.; SHVEYTSER, Ye.K., red.; ROTOVA, R.S.,

red.; GARINA, T.D., tekhn. red.

[Economics of socialism] Politicheskaia ekonomiia sotsializma. Moskva, Gos.izd-vo "Vysshaia shkola," 1963. 476 p. (MIRA 17:2)

LAPSHINA, Genriyetta Yevgen'yevna, kand.ekonom.nauk; PIKIN, Aleksandr Semenovich, kand.ekonom.nauk; BANEIKOV, N.A., red.; DEYEVA, V.M., tekhn.red.

Territorio de la companione

[Triumph of the collective farm system] Torzhestvo kolkhoznogo [Triumph of the collective larm system; 1960. 316 p. strois. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. (MIRA 13:6)

(Collective farms)

PIKIN, K.I., prof.; MITYUNIN, N.K., kand. med. nauk

"Traumatic shock." Reviewed by K.I.Pikin, N.K.Mitiumin. Ortop. travm. i protez. 24 no.6:81-84 Je'63 (MIRA 16:12)

LEVIN, Mark Mironovich, prof.; ZADOROZHNYY, B.A., dotsent, red.;

ELOUSOV, V.A., prof., red.; BOKARIUS, N.N., prof., red.;

VOROB'YEV, F.P., assistent, red.; GRISHCHENKO, I.I., prof., red.;

DERKACH, V.S., prof., red.; KORSUN', A.Ya., dotsent, red.;

KOSHKIN, M.L., prof., red.; KUDINTSEV, V.I., dotsent, red.;

PIKIN, K.I., prof., red.; PRIKHOD'KOVA, Ye.K., prof., red.;

POPOV, I.D., dotsent, red.; SOLOV'YEV, M.N., prof., red.;

SHTEYNHERG, S.Ya., prof., red.; KHARCHENKO, N.S., prof., red.

[Repeated surgery in stomach diseases following operations]

Povtornye operatsii pri zabolevaniiakh operirovannogo zheludka.

Khar'kov, Izd-vo Khar'kovskogo gos.univ., 1961. 177 p.

(Kharkov. Medychnyi institut. Trudy. vol.58). (MIRA 16:2)

PIKIN, K.I., prof.; MITYUNIN, N.K., kand.med.nauk; KUDINTSEV, V.I., dotsent

"Military field surgery" by A.A. Vishnevskii, M.I.Shraiber.
Reviewed by K.I.Pikin, N.K.Mitiumin, V.I.Kudintsev. Vest. khir.
91 no.7:141-143 J1 63 (MIRA 16:12)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

PIKIN, K.I., prof.

Varicocele. Nov. khir. arkh. no.12:86 D '61.

(MI:A 14:12)

1. Kafedra fakul'tetskoy i gospital'noy khirurgii pediatricheskogo i sanitarno-gigiyenicheskogo fakul'teta (zav. - prof. K.I.Pikin)
Khar'kovskogo meditsinskogo instituta.
(VARICOCELE)

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PINTE, K. I.

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PIKIN, K.I., prof. Monograph on ganshot wounds ("The gunshot wound" by S.S. Girgolav. Reviewed by K.I. Pikin) Toen med. zhur. no.1:93-94 Ja '59. (MIRA 12:4) (GUNSHOT WOUNDS) (GIRGOLAV, S.S.)

100 DESCRIPTION OF THE PARTY O

DANILOV, G.M.; KUNIN, Yu.I.; POPPE, E.I.; PIKIN, N.G.; PETROV, V.P.; LISTOV, Yu.A.

Discussing the article "Modulus or micromodulus?" Priborostroenie no.10:15-19 0 163. (MIRA 16:11)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

PIKIN, N. N.

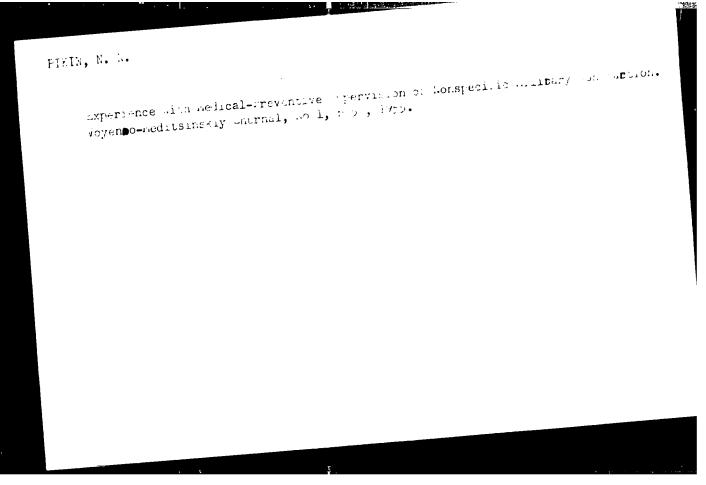
"The Experience With the Sanitary and Hygienia Water Supply Checkup in a District With Limited Water Resources" Voyenno-Meditsinskiy Zhurnal, No. 2, February, 150, p. 60.

PIKIN, N.N., podpolkovnik meditsinskoy sluzhby

Sanitary inspection of water supply in an area with limited water resources. Voen-med. zhur. no.2:60-64 P'56 (MLRA 10:5)

(WATER SUPPLY, sanit. control) (Rus)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240



To the same of

L 40173-66 EVT(1) JW

ACC NR: AP6018817 SOURCE CODE: UR/0056/66/050/005/1377/1380

AUTHOR: Pikin, S. A.; Taukernik, V. M.

ORG: none

TITLE: Thermodynamics of linear spin chains in a transverse magnetic field

SOURCE: Zh eksper i teor fiz, v. 50, no. 5, 1966, 1377-1380

TOPIC TAGS: spin system, transverse magnetic field, magnetic susceptibility, THERMODYNAMIC PROPERTY, HOMO SEN FOUR MAGNETIC FIFLD

ABSTRACT: A one-dimensional system of spins (s = 1/2) with a strongly anisotropic interaction of the immediate neighbors has been examined. The system is assumed to be in a homogeneous magnetic field directed along a given axis. Exact equations have been obtained for the thermodynamic characteristics of the system. It has been shown that at T = 0 and an absolute value of the magnetic-field strength H₀, the magnetic susceptibility has a logarithmic or root nature, dependent, like H₀, on the relation between the interaction constants. The authors thank Y. G. Yaka and A. I. Larkin for valuable discussions. Orig. art, has:

SUB CODE: 20/ SUBM DATE: 03Dec65/ ORIG REF: 003/ OTH REF: 002

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012408

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U14/00/96/66/0524062/05 1/1325

AUTHOR: Vaks, V. G.; Larkin, A. I.; Pikin, S. A.

ORG: none

TITLE: On the self-consistent field method in the description of phase transitions SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 1, 1966, 361-

TOPIC TAGS: phase transition, correlation function, thermodynamic function, crystal symmetry, ferroelectric material, dipole interaction, superconductivity

ABSTRACT: The purpose of the investigation was to determine the region of applicability of the Landau phenomenological theory for phase transitions, inasmuch as this theory disagrees with experiment in the direct vicinity of the phase transition point. Since the phenomenological theory is equivalent to the zeroth approximation of the self consistent field method from the microscopic point of view, the authors consider the phase transitions in an Ising model and in crystals for a large interaction radius r_O. Then the method of constructing the successive approximations is illustrated with the Ising model as an example. The first two terms of the expansion in terms of the parameter r_0^{-3} are obtained in the correlation function and in the thermodynamic quantities. The methods developed for the Ising model are then applied to the more complicated case of phase transitions accompanied by a change in crystal symmetry. The influence of the electric dipole-dipole interaction in ferroelectrics is analyzed and

Card 1/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001240

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ACC NR: AP6024896

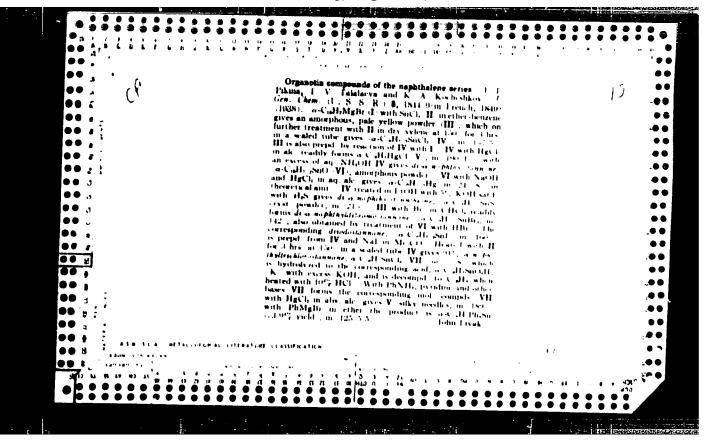
it is shown that the results of the phenomenological theory are valid in a wide range of temperatures. The question of the phase transitions in one-dimensional systems is considered. It is shown that as the temperature approaches the transition temperature, the parameter r_0^{-3} increases like $r_0^{-3}|T-T_c|^{-1/2}$ for forces of finite radius and like show that when the interaction in uniaxial ferroelectrics. The results mation describes the phase transitions in crystals and in the Ising model correctly everywhere except a narrow region near the transition point. The phenomenological theory is best applicable to superconductors, where the role of the interaction radius is played by the pair dimension. The authors thank A. P. Leyanyuk for a useful discussion. Orig. art. has: 51 formulas.

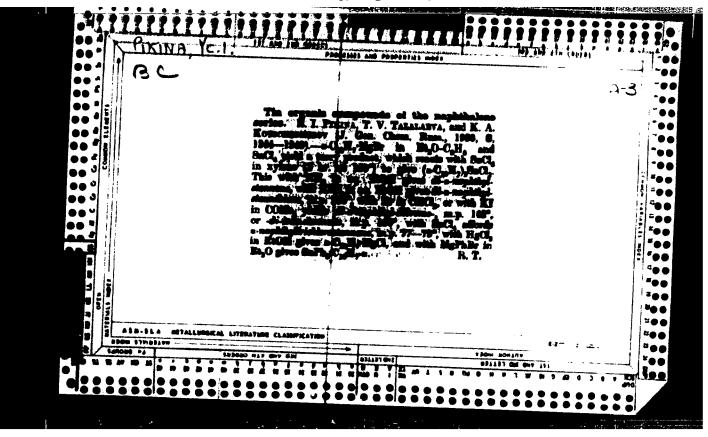
SUB CODE: 20/ SUBM DATE: 25Feb66/ ORIG REF: 015/ OTH REF: 005

_Card 2/2 net

PROKOF'YEV, A.D.; PIKIN, Ye.I.

High-output double-acting drawing press. Mashinostroitel' no.9:28 S '62. (MIRA 15:9)





BORISOV, S., doktor tekhn.nauk; PIKINER, Yu.

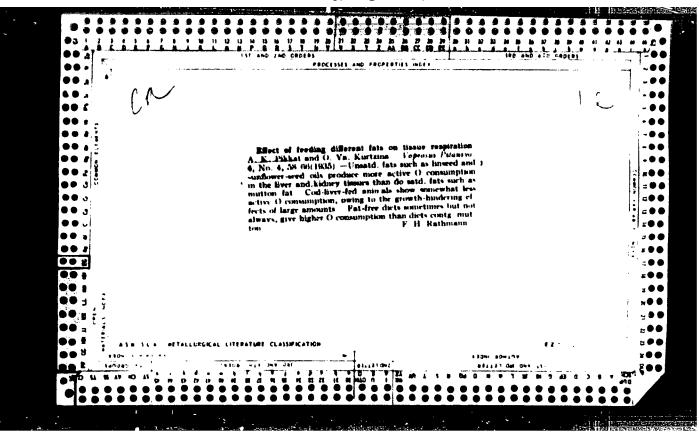
Story about large pipes. NTO 6 no.1:48-50 Ja '64. (MIRA 17:2)

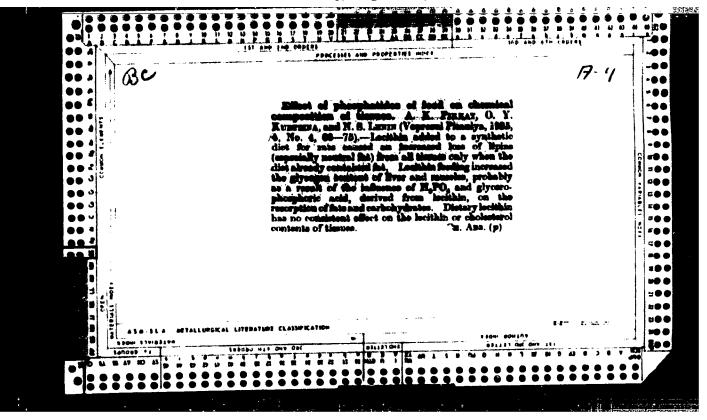
1. Predsedatel' soveta Nauchno-tekhnicheskogo obshchestva Ukrainskogo nauchno-issledovatel'skogo trubnogo instituta (for Borisov). 2. Uchenyy sekretar' soveta Nauchno-tekhnicheskogo obshchestva Ukrainskogo nauchno-issledovatel'skogo trubnogo instituta (for Pikiner).

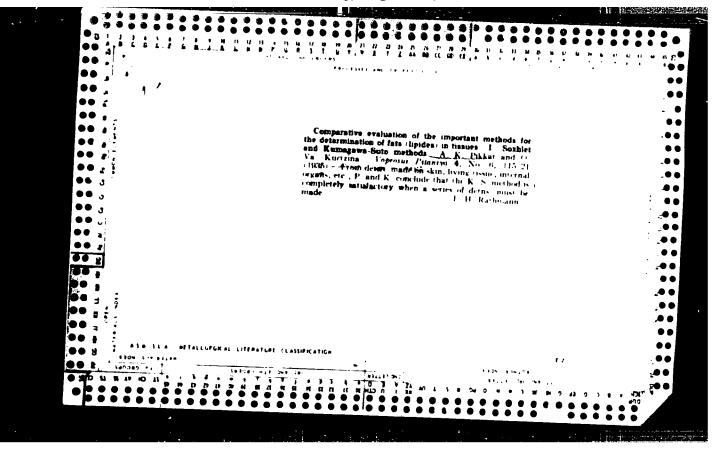
PIKLIKIFWICZ, H.

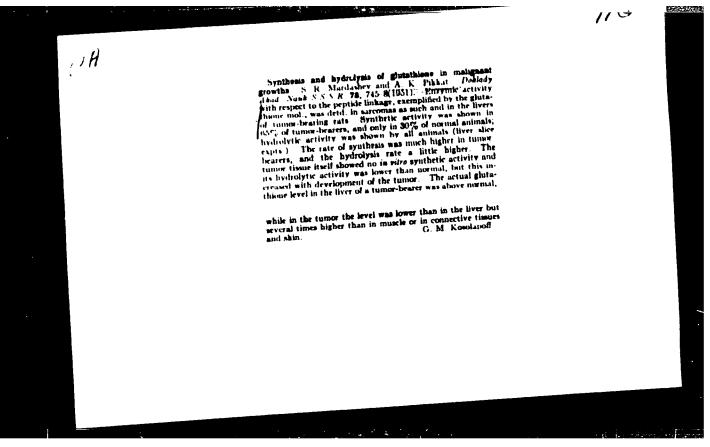
High-speed excavators on tires, a new achievement in the field of construction. r.156 (PRZEGLAD BUDGWLANY, Vol. 28, No. 4, Apr. 1956, Warsaw, Poland)

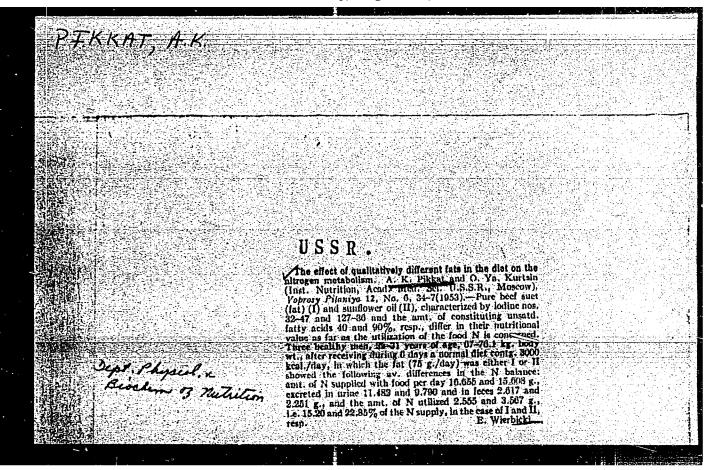
SO: Monthly List of Fast Furopean Accessions (FFAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.











PIKKAT, A.K.

Synthesis of glutathione by hepatoms and ascitic cancer cells [with summary in English] Vop.med.khim. 2 no.5:323-327 S-0 '56. (MLRA 9:12)

1. Kafedra biologicheskoy khimii I Moskovskogo ordena Lenina meditsinskogo instituta. (GLUTATHIONE, metabolism,

ascites carcinoma & hepatoma cells, synthesis (Rus)) (HEPATOMA, metabolism in, glutathione, synthesis in tumor cell (Rus)) (NEOPLASMS, metabolism,

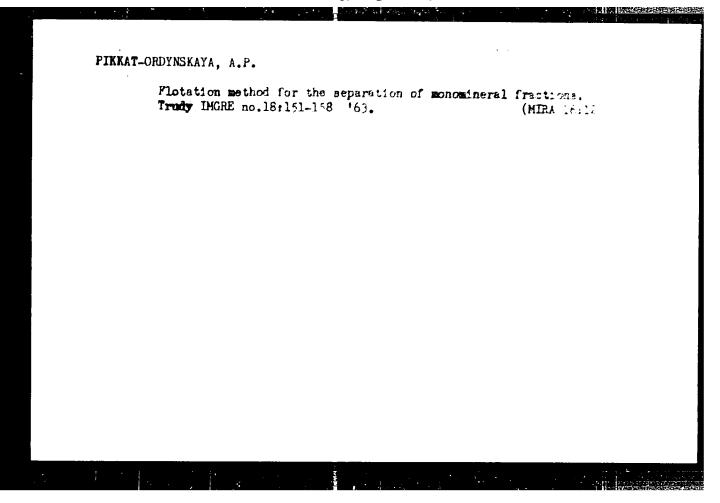
fumor cell glutathione synthesis in ascites carcinoma & hepatoma (Rus))

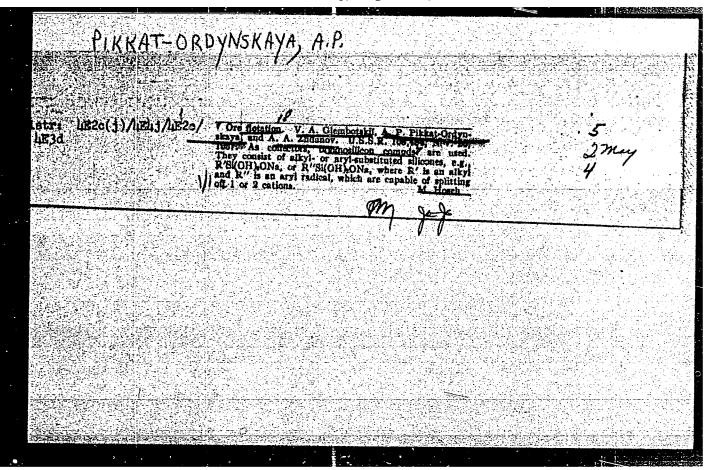
PIKKAT— OR PYN SKAYA, A.P.

GLEMBOTSKIY, V.A.; PIKKAT-ORDYHSKAYA, A.P.

Possible intensification of sulfide flotation by means of combining manthogenates and sodium cleats. Trudy Inst.gor. dela 1:235-241 '54. (MLRA 7:12)

(Flotation) (Sulfides)





SOV 137 58 7 14937

Translation from: Referativnvy znurnal, Metallingiva 1958 Nr. 7 p. 1558.

AUTHORS: Glembotskiy, V. A. Dmitrive a. G. M. Pikkat Orninskawa A. I

TITLE:

Improving the Flotation Indices of Polymetallic Ores to Use of Various Collectors and Combinations of Collectors (Observationship polymetal) polymetal incheskikh rud patem primeneniya razlichnykh soborateley i sochetaniy soborateles)

PERIODICAL: Byul tsvetn. metallurgii 1967, Nr 22 pp 10-14

ABSTRACT:

A study is made of the action of various collector reactants and combinations thereof or the ore of the Yekaterino Biagodat deposit. It is found that under the present ore dressing flow sheet, butyl xanthate, because of its low selectivity, is by rimeans the best collector. Var. as collectors are recommended for use at various points in the procedure as means of raising flotation indices. Isopropyl kanthate should be used in the primary lead-flotation operation, while control flotation should be run with more powerful collectors or mixtures of isopropyl and amyl xanthates and caustic dithiophosphate, while ethyl or isopropyl xanthate should be used in the primary zinc flotation. Tests of DS reactant gave reason top se the question of substituting DS reactant fave reason top se the question of substituting DS reactant.

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tuting DS reactant for phenol containing frothers. A Si

1. Ores--Floration

SOV/180-59-3-3/43

AUTHORS:

Glembotskiy V.A. Kelchemanova A.Ye. and

Pikkat-"rdynskaya A.P. (Moscow)

TITLE

Locking for New Methods of Separating Collective

Flotation Concentrates

FRIODICAL. Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, Metallurgiya i toplivo 1959. Nr 3, pp 13-19 (USSR)

ABSTRACT:

This article is a report approved by a session of the Uchenyy Sovet (Scientific Council) of the Institut Gornego dela (Mining Institute) AN SSSR (AS USSR) in December 1958. The authors mention the promising proposals of A.S. Konev and L.B. Debrivasys, adopted at the Leninogorskaya chogatitel naya fabrika (Leninogorsk Beneficiation Works) (Ref 1 and 2) for the separation of collective lead-zinc concentrates. To extend the range of application of collective flotation the authors decided to study other possible methods. This has led them to laboratory-scale studies of the stability of the adsorbed layers of collector on particle surfaces

in relation to different factors. For this the mineral suspension was treated for a given time with a collector and then subjected to flotation under normal conditions

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SOV/180-59-3-3/43 Looking for New Methods of Separating Collective Flotation Concentrates

The product was exposed to the action of the factor being studied and again flotated: with complete destruction of the adsorbed layer hardly any flotation Abrasive factors were studied using quartz, which was mixed together with the mineral (galenite) in the flotation chamber (Fig 1 shows the flowsheet): the effectiveness depended on the origin of the mineral and the collector used. Quartz was found ineffective with a pyrite, a chalcopyrite and a sphalerite. disruption of the adsorbed layers was studied using hot water, steam or electric (induction or ordinary frequency) heating of the froth flotation product. Results for water at 100°C are shown as plots of mineral recovery in the second flotation against time of heating (Fig 2 and 3) for a galenite, sphalerite and pyrite with ethyl and amyl xanthates. The treatment was most effective with the galenite. Steam was less effective than hot water. Electric heating was effective for materials relatively insusceptible to hot water treatment: high-frequency heating heating

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experiments in which G.M.Dmitriyeva participated showed no advantages. To elucidate details of the adsorption layer disruption process special determinations were made of the rate and degrees of decomposition of xanthate solutions at elevated temperatures and also the quantity of xanthate leaving the mineral surface under the action of mechanical or thermal factors. Fig 5 shows plots of amount of undecomposed potassium ethyl xanthates against time for 30 60, 80 and 100°C. Fig 6 shows plots of undecomposed ethyl, butyl and amyl xanthates after 30 minutes treatment against temperature. The authors conclude provisionally that with thermal decomposition of the adsorbed layer there is no appearance of free xanthate ions in the solutions; stability of a freshly separated ion is considerably reduced. Since 1956, the authors have been working in collaboration with the laboratoriya ulitrazvuka (Ultrasonics Laboratory) (head I.D.Rozenberg) of the Akusticheskiy institut (Acoustin Institute) of the AN SSSR (AS USSR). A magnetostruction vibrator (frequency

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Looking for New Methods of Separating Collective Flotation Concentrates

20 k Hertz, intensity 2 watt/cm²), was used on froth products of galenite, pyrite, spalerite, chalcopyrite, scheelite, calcite, beryl zircon, ilmenite and some other minerals, a chalcopyrite-galenite flotation product could be separated, the galenite being depressed. It is not clear in what form the xanthate is removed from the sulphide surface. It is doubtful if either the abrasive cavitation or temperature rises produced by the ultrasonic beam remove the xanthate. Adsorbed oleate layers on beryl and ilmenite were removed but in general such layers proved stable. Technical-economic calculations are said by the authors to be favourable to the use of ultrasonics. There are b figures 1 table and 10 references, 8 of which are Soviet and 2 English.

SUBMITTED: January 29, 1959

Card 4/4

KLASSEN, V.I., professor, doktor; PIKKAT-ORDYESKIX, G.A.; GUREVICH, R.I.

Increasing flotation efficiency by means of foam sprinkling. TSvet.
met. 29 no.5:12-16 My '56. (MLDA 9:8)

1. Moskovskiy gornyy institut.
(Flotation)

PIKKAT_ORDYNSKIY, G. A.

68-1-5/21

TO THE RESERVE WAS STANDED

AUTHOR: Klassen, V.I., Doctor of Technical Sciences, Professor, and Pikkat-Ordynskiy, G.A., Engineer.

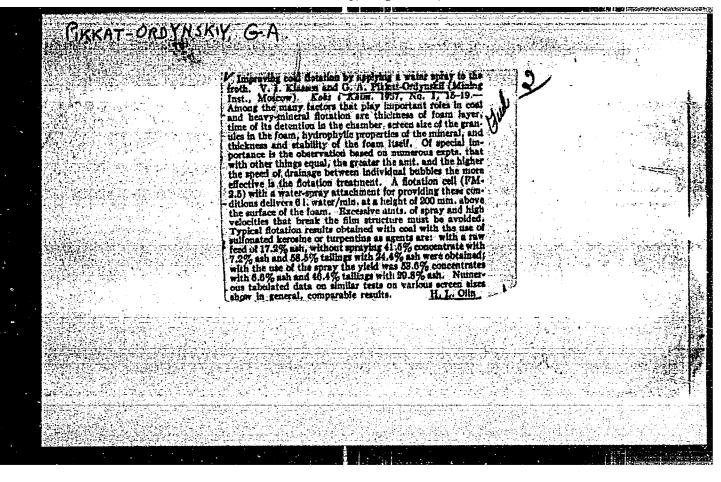
An Improvement in the Flotation of Coals by Spraying of TITLE:

Foam. (Uluchsheniye Flotatsii uglya primenentem oroshen-

iya peny.)

PERIODICAL: Koks i Khimiya, 1957, No.1, pp. 15 - 19 (USSR)

ABSTRACT: The process of secondary concentration which takes place in the foam layer was investigated in the flotation laboratory of the Moscow Mining Institute directed by Prof. I.M. Verkhov-Changes in the ash content with the epth of foam during flotation of coal on the Karagandinsk TsOF are shown in Fig.1. Experimental investigations indicated that the secondary concentration which takes place in foam depends to a large extent on the structure and stability of foam and on the thickness of water layers separating foam bubbles and the velocity of draining of this water. It was established that an artificial increase of the thickness of inter-bubble water and the velocity of its draining gives a positive effect. This was done by spraying the foam. Optimum condition of spraying: water consumption 6 1/min per 6M-2.5 machine; height of spraying installation 200 mm over the foam surface. With higher water consumption or excessive height of spray the destruction of Card 1/2 foam takes place. Spraying of foam during flotation (Fig. 2)



GIMDEOTSKIY, V.A., prof., doktor tekhn. nank; DMITRIYEVA, G.M., kand. tekhn. nank; PIKKAT-ORDYESKAYA, A.P.

Improving flotation indices for polymetallic ores by using various collectors and combinations of collectors. Biul. TSIIN tovet. met. no.22:10-14 *57. (MIRA 11:8)

 $\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) \right)$

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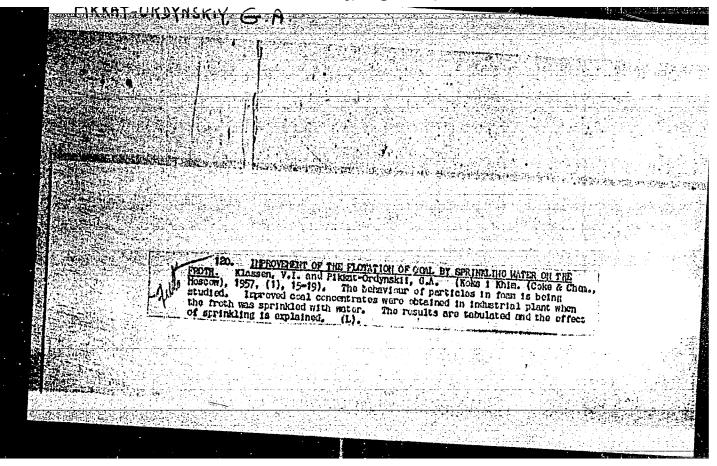
AUTHORS Klassen, VI. Pikkat-Ordynskiy, GA

TITLE Irrigation of the Froth in Flotation Machine Chambers to Improve the Flotation Process (Primenenty e orosheniya peny y kamerakh flotatsionnykh mashin s tsel'yu uluch sheniya protisessa flotatsii)

PERIODICAL Byul Tsentr in-tinform M-valtsvetn metallurgii SSSR. 1957, Nr. 5, pp 8-11

A STRACT On irrigation of flotation froth with water, the process of secondary concentration of minerals, which is chiefly dependent upon the thickness of the aqueous layers in the froth and the amount of water flowing between the bubbles. is significantly improved. The improvement of the quality of the concentrates results from the washing away of the gangue parties carried into the froth mechanically and loosely adhering thereto. Simultaneously there is an increase in recovery due to 1) the growth in the total surface of the bubbles, which are enlarged to a lesser degree and merge. 2) the thickening of the water layer and the possibility of retention of the larger particles of material

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KLASSEN, V.I., dokter tekhnicheskikh nauk, professor; PIKKAT-ORDYNSKIY, G.A. inzhener.

Froth irrigation for the improvement of coal flotation. Koks i khim. no.1:15-19 '57. (MLRA 10:3)

1. Moskovskiy gornyy institut.
(Goal preparation) (Flotation)