KIRSANOV, V.M.: KONOVALOV, V.S.

Tomperature conditions in the formation of the head part of a killed steel ingot. Izv.vys.ucheb.zav.; chern. met. 8 no.4:72-74' 165. (MIRA 18:4)

1. Dnepropetrovskiy metallurgicheskiy institut.

KONOVALOV, V.S.; KIRSANOV, V.M.; PANYUSHKIN, N.V.; PATLAN', Ye.F.

Improving the quality of the head part of a killed steel ingot.

(MIRA 18:6)

Stal' 25 no.5:417-418 My '65.

1. Truboprokatnyy zaved im. K.Libknekhta i Dnepropetrovskiy metallurgicheskiy institut.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824330004-7

AUTHOR:

Konovalov, V.S., Engineer

SOV-118-58-9-7/19

TITLE:

Main Transportation Lines Operated by Means of Belt Conveyers and Cables (Magistral'nyy transport s pomoshch'yu len-

tochnykh konveyverov i kanatnykh dorog)

PERIODICAL:

Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958, Nr 9,

pp 22-25 (USSR)

ABSTRACT:

Referring to the advantages of belt conveyer and suspended cable transportation of bulk goods in the US, South America and Sweden, the author admits that the USSR is lagging behind in this respect. The VNIIPTMASh Institute is working on this problem. By means of various graphs, computations and reflections, the author tries to find out the most ra-

tional ways of transportation.

There are 3 photographs and 10 graphs.

1. Materials--Transportation

Card 1/1

KONOVALOV, V. S. Cand Tech Sci — (diss) "Investigation of the effectiveness in the use of various forms of continuous transport for the movement of massive amounts of friable loads from places of origin to points where needed," Moscow, 1960, 34 pp, 200 cop. (Institute of Mining, AS USSR) (KL, 42-\$0, 114)

KONOVALOV, V.S., kand. tekhn.nauk; STEFANENKO, S.A., inzh.;
KUZNETSOVA, M.I., red.; KOVAL'SKAYA, I.F., tekhn. red.

[Mechanization and automation of intrafactory transportation in machinery plants] Mekhanizatsiia i avtomatizatsiia vnutrizavodskogo transporta mashinostroitel'nykh zavodov. Moskva, TSINTIMASH, 1961. 68 p. (MIRA 16:4) (Conveying machinery) (Industrial power trucks) (Automation) (Cranes, derricks, etc.)

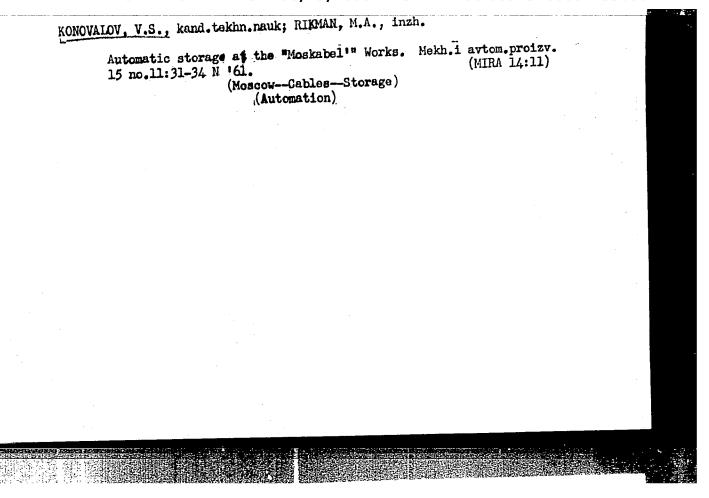
KONOVALOV, V. S., inzh.

Efficiency of using continuous transportation of bulk loose loads from places where they are mined to points where they are needed. Sbor. trud. MISI no.39:422-424 161.

(MIRA 16:4)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut ped yemno-transportnogo mashimostroyeniya.

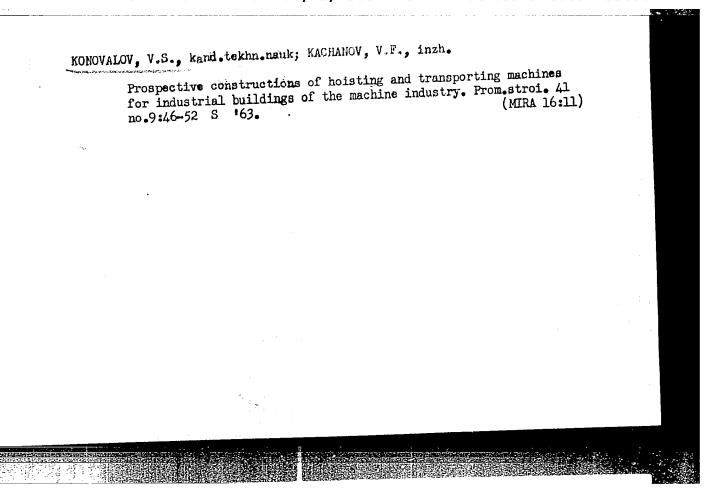
(Mime haulage)



KOMCVALOV, V.S., kand.tekhn.mauk; POPOV, Iu.I., inzh.

Problems of designing general plans and intrafactory transportation at machinery plants. Prom. stroi. 40 [i.e. 41.] no.3:10-16 Mr (MIRA 16:3) '63.

(Industrial plants—Design and construction)



KONOVALOV, Vasiliy Vasiliyevich; KUZNETSOVA, Lyudmila Ivanovna;

KOVALICHUK, V.S., prepodavateli, retsenzent; POKROVSKIY,

D.V., prepodavateli, retsenzent; KHACHATUROV, V.V., red.;

USANOVA, N.B., tekhn. red.

[Radio navigation equipment on ships]Sudovye radionavigatsionnye ustroistva. Moskva, Izd-vo "Morskoi transport," 1962. 374 p. (MIRA 16:2)

(Radio in navigation) (Radar in navigation)

137-58-6-11355

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 14 (USSR)

AUTHOR:

Konovalov, V.V.

TITLE:

Pelletizing Krivoy Rog Ores (Okatyshi iz krivorozhskikh rud)

PERIODICAL:

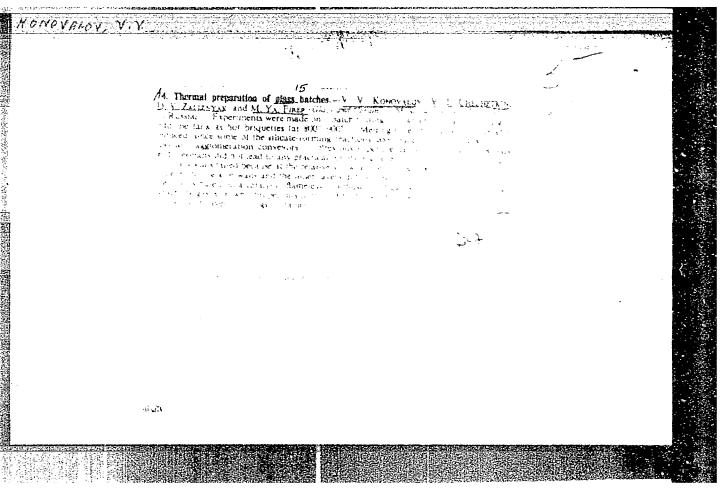
: V sb.: Domennoye proiz-vo. Moscow, Metallurgizdat, 1957,

pp 74-88

ABSTRACT:

An investigation is made of the production of pellets (P) from undersize (0-12 mm) Krivoy Rog ores (KR). The experiments were preceded by the testing of a number of methods of clinkering. The best results were obtained when dry material was introduced into a supersaturated moist mass, with subsequent pelletizing. Experiments showed that clinkering by pelletizing may be done successfully not only with fine-ground concentrates, but also with undersize KR. Flue dust, lime, chalk, and coke breeze were tested in a series of experiments to strengthen the P. The P thus produced were roasted with blast-furnace gas. The influence of the temperature and of the excess-air coefficient during the burning of the charge additions on the roasting process and the properties of the P were investigated. The rate of downward travel of the zone of combustion

Card 1/2



AUTHORS: Konovalov, V. V., Chechetkin, V. I., SOV/72-58-7-5/19

Zaliznyak, D. V., Firer, M. Ya.

TITLE: Semi-Industrial Investigations of the Thermal Preparation of

Glass Layers (Polupromyshlennyye issledovaniya termicheskoy

podgotovki stekol nykh shikht)

PERIODICAL: Steklo i keramika, 1958, Nr 7, pp. 17 - 24 (USSR)

ABSTRACT: Such a sintering device is shown in figures 1 and 2 and is described afterwards. The tests were carried out with two types of layers: the test-and the working layer, the compositions of

of layers: the test-and the working layer, the compositions of which are given in table 1. The curves of the rise in temperature during the sintering of the two layers under the same conditions,

are given in figure 3. The curves of the dependence of the Na₂SO₄-content in finished agglomerates on the relation of gas

and air in the induction mixture for 2 sulfate-soda layers are given in figure 4, and are described in full details. The temperature curves obtained with the sintering of the test layer are given in figure 5. Further the authors report on the filling weight of the agglomerated glass layers, as well as also on the

Card 1/3 productiveness of the agglomerates. The most advantageous height

Semi-Industrial Investigations of the Thermal Pre- SOW72-58-7-5/19 paration of Glass Layers

of layer during sintering, as well as the optimum velocities of this process are given in table 2. The duration of the heat treatment, as well as the curves of vacuum-changes for different types of layers and heights are given (Figures 6,7 and 8). The heat-treatment lasts 9 to 10 minutes. Then, the consumption of loosening- and foundation material, as well as the gas consumption for the heat treatment of the layer are given. The dependence of the specific gas consumption on the excessive air supply for various layers is shown (Fig 9). The recommended gas processes for some glass-layers are given in table 3. The dependence of the gas consumption on the duration of the heat treatment and the sintering speed are illustrated by means of curves (Figs 10 and 11). Such a device has been developed for a tank furnace of the Gomel' Glass-Works on the basis of the semi-industrial tests carried out. A test series of the glass melting of heat-treated layers was carried out by which the technical and economic efficiency of their industrial use was proved. There are 11 figures, 3 tables, and 2 Soviet references to references.

Card 2/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824330004-Semi-Industrial Investigations of the Thermal Pre- SOV/72-58-7-5/19 paration of Glass Layers

1. Glass--Processing 2. Glass--Sintering 3. Glass--Temperature factors

CIA-RDP86-00513R000824330004-7 "APPROVED FOR RELEASE: 06/19/2000

507/72-59-10-6/14 15(2)

Zaliznyak, D. V., Firer, M. Ya., Konovalov, V. V., Chechetkin, AUTHORS:

V. I., Dunayev, V. G.

The Influence of Thermal Preparation of the Charge on Glass TITLE:

PERIODICAL: Steklo i keramika, 1959, Nr 10, pp 21 - 27 (USSR)

In the years 1952-1954, the Moskovskiy gornyy institut (Moscow ABSTRACT:

Mining Institute) together with the Gomel' Glassworks carried out investigations of the thermal preparation of glass charges (Footnote 1). Experiments on the melting of the sintered charge in continuous glass-melting furnaces were carried out at the Gomel' Glassworks, and experiments of comparative melting concerning the initial and the sintered charge were carried out at the laboratory of the first Kafedra silikatov i stekla Belorusskogo politekhnicheskogo instituta (Chair for Silicates and Glass of the Belorussian Polytechnic Institute), at the Laboratory for Glass Melting, as well as at the test plant of the institut stekla (Glass Institute) (Footnote 2). It was estab-

lished that the melting time of the sintered charge depends on its content of free Na SO (Fig 1), as well as on the temper-

Card 1/3

The Influence of Thermal Preparation of the Charge on SOV/72-59-10-6/14 Glass Frits

ature of the sintered charge (Fig 2). It may be seen from figures 3,4,5, and 6 that vitrification is considerably accelerated during the melting of the sintered charge. The melting time of the initial and the sintered charges is shown in table 1. As may be seen from figure 7, the maximum furnace temperature was 1350°. The chemical analyses of the glasses from the sintered and initial charge are shown in table 2. Experiments showed that at furnace temperatures of from 1350 to 1450°, the entire melting and the refining of glasses from the sintered charge afford better results as compared with the initial charge . Moreover, at equal charge weight, 20% more glass is obtained from the sintered charges than from the initial charge. The chemical analyses of two experimental batches of sintered charges are shown in table 3. By using a cold sintered charge, the furnace output can be increased by 25-30%, and by using a hot charge (at 800-900°), it can be increased by 35-40%, and the time of vitrification and refining can also be considerably reduced. According to indications of Professor N. V. Solomin (Footnote 3), the furnace campaign can be considerably lengthened by using a sintered charge. According

Card 2/3

varu //

	1-2/EEC-L/T/EEC(b)-2/EHA(I 0/ASD(a)-5/AFWT AFTTEE EAEMIT	h) Pn-4/Pc-4/Pq-4/Pac-4/	
ritle: The method and de			7-4
TITLE: The method and de superhigh frequency	AICE FOR MARKATTURE AND	gM	Aurient de
SOURCE: IVUZ. Radiotekh			E Programme of the Control of the Co
	Section 2000 Company and Company	tino usus	. 1
TOPIC TACS: superhigh fr guide, waveguide measurin hot cathode diode	g section, traveling of	vavepower, power meter,	•
guide, waveguide measurin hot cathode diode ABSTRACT: The described field power inside a wave that a space charge it	method of measuring t guide is based on the n the waveguide, and ice for this purpose, device and is inserted e of low inertia, the	he superhigh-frequency interaction of the has resulted in the desired directly into the course power and power rectly by the device.	gn s
guide, waveguide measurin hot cathode diode ARSTRACT: The described field power inside a wave tive and a space charge in a similar miniature devices and a space charge in the consequide). Because	method of measuring t guide is based on the n the waveguide, and ice for this purpose, device and is inserted e of low inertia, the	he superhigh-frequency interaction of the has resulted in the desired directly into the course power and power rectly by the device.	gn

L 6977-65

ACCESSION NR: AP4042855

0

meters for various ranges from tens of watts to hundreds of kilowatts and higher. The experiments were conducted in the 3-cm band. The investigated circuit consisted of a continuous generation magnetron, attenuator, standing-wave ratio meter, matching transformer, measuring rall formulated waveguide section with a stretched tungsten cathode magnetron, and a diode with the conductive walls), and a 1M-4-type power—manitoring meter. The maximum measured power was 10w. This measuring device with four insulated cathodes, placed in four various waveguide make the sections, can be developed into a four-probe measuring line for the sections of the sections. Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 30Sep63

ATD PRESS: 3103

ENCL: 00

SUB CODE: EC

NO REF SOVE 002

OTHER: 001

Card 2 / 2

23970 \$/131/61/000/006/003/003 3009,3309 15.2250 B105/B206 Gordeyev, N. P., Zegzhda, V. P., Konarev, M. U., Shalkov, AUTHORS: K. A., Konovalov, Ya. A. Experience in the use of graphise containing refractory TITLE: materials for pumping over liquid metals by the electromagnetic method Ogneupory, no. 6, 1961, 292 PERIODICAL: TEXT: This article deals with the problem of the transportation of liquid metals by means of electromagnetic pumps, for the solution of which high-quality refractory materials are necessary. The high thermal and slag stability, non-wettability by metals and other properties of graphite containing refractory materials led to the assumption that they are suitable for this purpose. The testing of graphite containing refractory materials in steel discharge shutes, made according to the method of the VIO, Vseesyuznyy institut ogneuporov (All-Union Institute of Refractory Materials) jointly with the Borovichskiy kombinat ogneuporov (Borovichi Combine of Refractory Materials) showed positive results: the Card 1/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-

CIA-RDP86-00513R000824330004-7

s/131/61/000/006/003/003 B105/B206 Experience in the use of graphite ... graphite containing chamotte products were highly resistant against washing graphite containing chamotte products were highly resistant against wash out by the stream of liquid metal, and warranted an increase of the stability of the discharge-shute lining by four to ten times. The All-union Institute of Refractory Materials jointly with the avtozavod im. Likhacheva (Automobile Plant imeni Likhachev) experimentally produced a graphite containing chamotte lining for an electromagnetic shute for graphite containing chamotte lining for an electromagnetic shift graphing over liquid crude iron, as well as an electromagnetic sequencing pumping over liquid crude hopper in an iron foundry. After three tests of pumping over liquid crude iron, the 6 m long shute lining did not show any elgan of washing our iron, the 6 m long shute lining did not show any elgan of washing our liquid iron, who development of the induction method for pumping and destruction. The development of the induction method for purpose liquid crude iron will necessitate the establishment of a apesial departs ment for the manufacture of graphite containing refractory Enterials. There is 1 figure. ASSOCIATION: Vsesoyuznyy institut ogneuporov (All-Union Institute of Refractory Materials) N. P. Gordeyev, V. P. Zegzhda; Borovichskiy kombinat ogneuporov (Borovichi Combine of Refractory Materials) M. U. Konarev, K. A. Shalkov, Ya. A. Konovalov Card 2/2

Using refractory materials containing graphite for transferring liquid metals by an electromagnetic method. Ogneupory 26 no.6:292 '61. (MIRA 14:7)

1. Vsesoyuznyy institut ogneuporov (for Gordeyev, Zegzhda).
2. Borovichskiy kombinat ogneuporov (for Konarev, Shalkov, Konovalov).

(Refractory materials)
(Smelting)

APPROVED	OR RELEASE. 00/19/2000	CIA-RDP80-00513R000824330004-	
PRIARE I BOOK EXPIDITATION SCW/ADIB Aleaderlya manch belorusakoy SSR, Prizio-tekhnicheskiy institut Spornk manchnych trudov, vrp. 5 (Collected Scientific Papers of the Engineering Progress, Acadery of Sciences Belorusakays Sars, No. 5) Winna, Jad-vo AN BSSR, 1959. 235 p. Errata alip Eng. of Pablishing Bouse; Privates, Acadery of Sciences Extrorial Beard; Vr. Severedation, Acadery of Sciences EXSR (Chief Ed.), K.V. Gorev, Acaderdian, Acadery of Sciences EXSR (Chief Ed.), K.V. Gorev, Acaderdian, Acadery of Sciences EXSR (Chief Ed.), K.V. Gorev, Acaderdian, Acadery of Sciences EXSR (Chief Ed.), K.V. Gorev, Acaderdian, Acadery of Sciences EXSR (Chief Ed.), K.V. Gorev, Acaderdian, Acadery of Sciences EXSR (Chief Ed.), K.V. Gorev, Acaderdian, Acadery of Sciences EXSR (Chief Ed.), K.V. Gorev, Acaderdian, Acadery of Sciences EXSR (Chief Ed.), K.V. Gorev, Acaderdian, Sciences EXSR (Chief Ed.), K.V. Gorev, Acaderdian, Acadery of Sciences EXSR (Chief Ed.), K.V. Gorev, Acaderdian, Sciences EXSR (Chief Ed.), K.V. Gorev, Acaderdian, Acadery of Sciences EXSR (Chief Ed.), K.V. Gorev, Acaderdian, Acadery of Sciences EXSR (Chief Ed.), K.V. Gorev, Acaderdian, Acadery of Sciences EXSR (Chief Ed.), K.V. Gorev, Ac	of derporating dies, insuch unsating, sulpidinton and constituing of derporating dies, insuch unsating, sulpidintion and constituing processes, the phenomena of pulse-discharts, such and an exposer, the phenomena of pulse-discharts, such and a sulpidint mass of the processes, the presentation, and a sulpidint mass of the presentation, v. M. T. Prostrict, and A.V. Turkov. Effect of 70 the prash-duter Sape on the Life of Hast processes, v. M. T. Prostricy, and M.Y. Turkov. Effect of 70 the prash-duter Sape on the Life of Hast processes, v. M. T. Prostricy, and M.Y. Turkov. Effect of 70 the prash in Emo-Porging Has and M.Y. Gerrilos, on the lagrant unsured, a. T. Effect of Empart in Desetting Steel Plants and Purces in Banchor, a. T. Effect of Empart in Desetting Steel Plants with a function of Legic in the First Desetter which a farther Method of Steel to Deformation at Close-to-99 the processes of Steel in Desetter and English Emparatures of Steel in Deformation at Close-to-99 the processes of Steel in the Method of Properties of Miles Children in the Method of M	y dorvy, E.V., and S.L. Mirchitle, Sulphidation in Liquid Estis 126 Octory, R.V., and S.L. Mirchitle, Sulphidation in Liquid Estis 126 Effect of CarSurling Northwest on the Mothanical Properties and Composition of the 18 England on the Mothanical Properties 133 movies. Experience of the 18 Mark 18 Mark and Composition in High-frequency Current Beating Experience Full Estimation Annealing of Copper Mith High-frequency Current Beating of Metals Experienced Michigan of Metals Experienced Michigan of Metals Experienced Michigan of Metals Experienced Michigan of Mark Charles Alloys Michigan Phils of Michigan Composition of Metals Michigan Phils of Michigan Composition of Metals Michigan Phils of Michigan Composition of Metals Michigan Michigan of Michigan Metals Metals Michigan Michigan Michigan of Michigan Michigan Michigan Michigan Michigan of Michigan Michigan Michigan Michigan Michigan of Michigan Michigan Michigan Michigan Michigan of Michigan Millowed Michigan Michigan Michigan Michigan of Michigan Millowed Michigan Michigan Michigan Michigan Michigan Millowed Millowed Michigan Michigan Michigan Michigan Millowed Millowed Millowed Michigan Michigan Michigan Millowed Mil	
		Kowindlay you 6.	

KONOVALOV, Ya.R. [Kanavalau, IA.R.]; YEFREMOV, V.I. [IAfremau, V.I.]

Effect of ultrasonic vibrations on the strength and plasticity of brass. Vestsi M BSSR. Ser. Fiz.-tekh. nav. no. 4193-98

160. (Ultrasonic waves) (Brass)

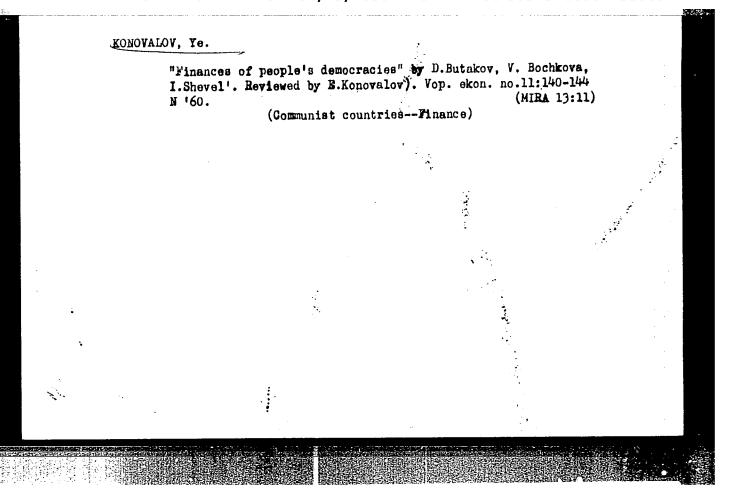
(Brass)

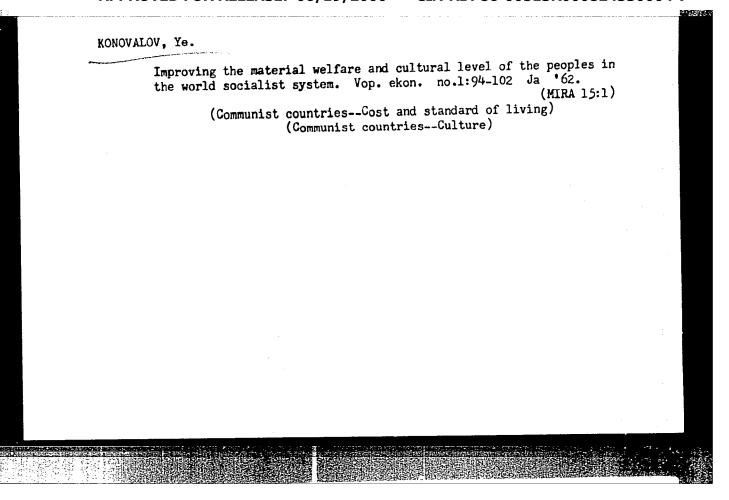
KONOVALOV, Ya.R. [Kanavalau, IA.R.]; YEFREMOV, V.I. [IAfremau, V.I.]

Effect of ultrasound waves on the strength and plasticity of statically loaded brass. Vestsi AN BSSR Ser. fiz.-tekh. nav. no. 1:114-119 '61.

(Brass) (Ultrasonic waves)

(Brass) (Ultrasonic waves)

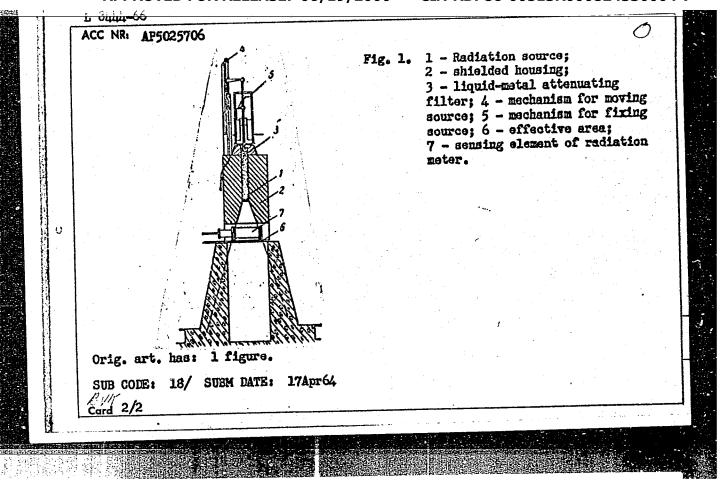




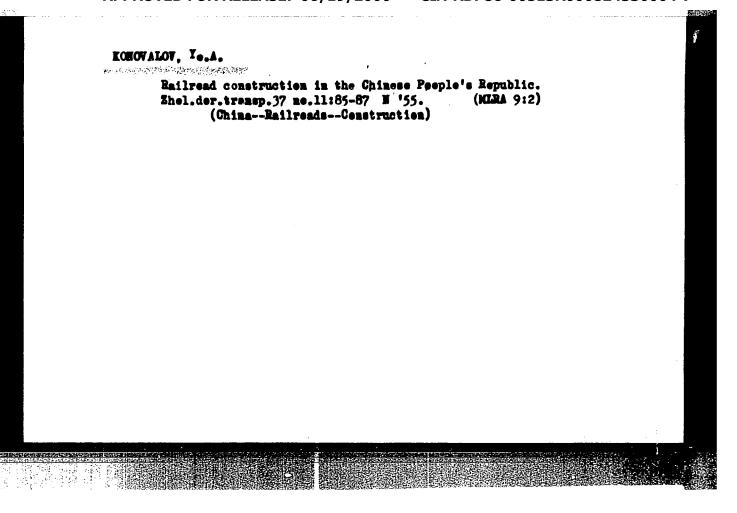
Mothods for calculating the compression and settling of peat bogs in drying. Torf. prom. 40 no.7:24-27 '63. (MIRA 17:1)

1. Kalininskiy torfyanoy institut.

AUTHORS: Kor	ovalov, Ye.	A.; Ploshc	hanskiy, L.	M.; Solo	v'yev, V. A.		48
ا واستعربت		35		535		55	B
ORG: none				سکار میرد			
TITLE: A dev	ice for chec	king radia	tion meters.	Class	21, No. 1747	29	
SOURCE: Byul	leten' izobr	reteniy i t	ovarnykh zna	ikov, no.	18, 1965, 5	7	
TOPIC TAGS:	radiation n	menitor, ra	diometry, re	diometer	, filter, me	rcury	
	is Author Ce	rtificate	presenta a d	levice for	r checking r	adiation m	oters.
ABSTRACT: TH	radiation a	source, a s	hielded hous	ing with	a collimate	d channel,	an
ABSTRACT: The It contains a attenuating in	radiation a	source, a s enisms for	hielded hous moving and i	ing with Cixing th	a collimate e position o	d channel, f the sour	en ce, and
ABSTRACT: The It contains a attenuating if an effective	radiation a lilter, mecha area (see Fi	source, a si enisms for i ig. 1). To	hielded hous moving and i simplify th	ing with fixing the se design	a collimate e position o , increase t	d channel, f the sour the measure	en co, end ment
ABSTRACT: The It contains a attenuating in	radiation s filter, mecha area (see Fi duce the che	source, a stanisms for tig. 1). To scking time	hielded hous moving and i simplify the , a liquid m	ing with lixing the metal (e.	a collimate e position o , increase t g., Hg) is t	d channel, If the sour the measure used as the	en ce, end ment
ABSTRACT: The It contains a attenuating fan effective range, and re	radiation a liter, mecha area (see Fi duce the che liter. The	source, a stanisms for tig. 1). To scking time	hielded hous moving and i simplify the , a liquid m	ing with lixing the metal (e.	a collimate e position o , increase t g., Hg) is t	d channel, If the sour the measure used as the	en ce, end ment
ABSTRACT: The It contains a attenuating if an effective range, and reattenuating if	radiation a liter, mecha area (see Fi duce the che liter. The	source, a stanisms for tig. 1). To scking time	hielded hous moving and i simplify the , a liquid m	ing with lixing the metal (e.	a collimate e position o , increase t g., Hg) is t	d channel, If the sour the measure used as the	en ce, end ment
ABSTRACT: The It contains a attenuating if an effective range, and reattenuating if	radiation a liter, mecha area (see Fi duce the che liter. The	source, a stanisms for tig. 1). To scking time	hielded hous moving and i simplify the , a liquid m	ing with lixing the metal (e.	a collimate e position o , increase t g., Hg) is t	d channel, If the sour the measure used as the	en ce, end ment
ABSTRACT: The It contains a attenuating if an effective range, and reattenuating if	radiation a liter, mecha area (see Fi duce the che liter. The	source, a stanisms for tig. 1). To scking time	hielded hous moving and i simplify the , a liquid m	ing with lixing the metal (e.	a collimate e position o , increase t g., Hg) is t	d channel, If the sour the measure used as the	en ce, end ment
ABSTRACT: The It contains a attenuating if an effective range, and reattenuating if	radiation a liter, mecha area (see Fi duce the che liter. The	source, a stanisms for tig. 1). To scking time	hielded hous moving and i simplify the , a liquid m	ing with lixing the metal (e.	a collimate e position o , increase t g., Hg) is t	d channel, If the sour the measure used as the	en ce, end ment
ABSTRACT: The It contains a attenuating if an effective range, and reattenuating if	radiation a liter, mecha area (see Fi duce the che liter. The	source, a stanisms for tig. 1). To scking time	hielded hous moving and i simplify the , a liquid m	ing with lixing the metal (e.	a collimate position of increase tg., Hg) is t	d channel, If the sour the measure used as the	an ce, and ment



L 5067-66 EWT(m)/EPF(c)/EWP(j)/T/EWA(h)/EWA(l) UR/0089 539.16. AUTHOR: Konovalov, Ye. A.; Ploshchanskiy, L.	\@2\0T8\00\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
TITLE: The use of polyethylene pipes in pipel sampling system	toon of dominating of r
SOURCE: Atomnaya energiya, v. 19, no. 2, 1965	/ ~ i
TOPIC TAGS: nuclear reactor, atomic energy pl pollution control	ant equipment, air
ABSTRACT: The radioactive-air samplers are use lines made of aluminum or stainless steel pipe their replacement by non-corrosive polyethyler. The authors describe their experiments with the ling a 20 mm diameter and 4 mm wall thickness tests showed that the polyethylene pipes could	ne pipes is discussed. ne polyethyline pipes have The results of their the used at temperatures
up to 60 C, pressures up to 3 kg/sq cm and rail At the beginning of 1962, the air sampling pireactor were equipped with polyethylene pipes length was about 3000 m. No trouble was expe	pelines of the VVR-M and tubes. Their total
Cord 1/2	090/0453
Card 2/2 //	

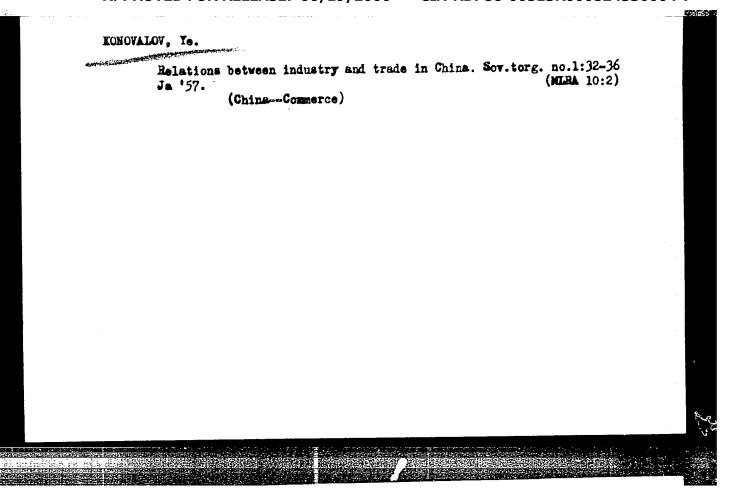


KOEDVALOV. Ye.

Cooperative agriculture in the Chinese People's Republic.

Vop.ekon. no.9:138-144 S '56. (MLRA 9:10)

(China--Agriculture, Cooperative)



New upswing of railroad construction in the People's Republic of China. Zhel.dor.transp. 40 no.ll:87-88 N '58.

(China--Railroads--Construction)

(China--Railroads--Construction)

YAN TSZYAN'-BEY [Yang Chien-pei]; STARODUBROVSKAYA, V.N.; KONOVALOV.

Ye.A.; GUAN' DA-TUN [Kuan Ta-t'ung]; CLEYNIK, I.P.; SEMENOVA,

L.S.; KHE LI [He Li]; CHEHAN SY-TSYAN' [Chang SSM-ch'ien];

VOIHOV, A.M.; SHIRYAYEV, S.L.; KURAKIH, V.A.; STUPOV, A.D., red.;

KANEVSKAYA, T.M., red.; GERASIMOVA, Ye.S., tekhn.red.

[Mconomy of the Chinese People's Republic, 1949-1959] Ekonomika Kitaiskoi Narodnoi Respubliki, 1949-1959. Moskva, Gosplanizdat, 1959. 304 p. (MIRA 13:5)

1. Zavednyushchiy sektorom ekonomiki stran narodnoy demokratii Instituta ekonomiki AN SSSR (for Stupov). (China--Economic conditions)

VASIL'TSOV, V.D.; VOLCHENKO, M.Ya.; GERTSOVICH, G.B., kand.ekon. nauk; ZHARKOV, Ye.I.; KONOVALOV, Ye.A., kand. ekon. nauk; MATVIYEVSKAYA, E.D.; OLEYNIK, I.P., kand. ekon. nauk; RAYEVSKAYA, E.S.,; SKVORTSOVA, A.I.; SOKOLOVA, N.V.; SOTNIKOVA, I.A.; TANDIT, V.S.; TRIGUBENKO, M.Ye.; FIRSOVA, Yu.V.; SHABUNINA, V.I.; YUMIN, M.N.; STOROZHEV, V.I., kand. istor. nauk, red.; LEPNIKOVA, Ye., red.; SMIRNOV, G., tekhn. red.

[Economy of the people's democracies in figures for 1960] Ekonomika stran sotsialisticheskogo lageria v tsifrakh 1960 g. Pod red. G.B.Gertsovicha, I.P.Oleinika, V.I.Storozheva. Moskva, Izdvo sotsial'no-ekon. lit-ry, 1961. 238 p. (MIRA 15:4) (Communist countries—Economic conditions)

A conferen	ce of statisti	cians. Vest	.AN SSSR 31	no.9:100-101 (MIRA 14	(.10)
5 W.		(Statisti	.cs)	/,ma 1:	,,10
		•			
	<u>:</u> •				
		• 5			

SOROKIN, G.M.; OLEYNIK, I.P., doktor ekon. nauk; RYABUSHKIN, T.V., doktor ekon. nauk; DUDINSKIY, I.V., kand. ekon. nauk; MIROSHNICHENKO, B.P., kand. ekon. nauk; SERGEYEV, V.P., kand. ekon. nauk; TARNOVSKIY, O.I., kand. ekon. nauk; STOROZHEV, V.I., kand. ist. nauk; KONOVALOV, Ye.A., kand. ekon. nauk; GERTSOVICH, G.B., kand. ekon. nauk; POPOV, K.I., kand. ekon. nauk, red.; ZEVIN, L.Z., red.; NIKOLAYEV, D.N., red.; PAK, G.V., red.; GERASIMOVA, Ye.S., tekhn. red.

[The building of communism in the U.S.S.R. and cooperation among the socialist countries]Stroitel'stwo kommunizma v SSSR i sotrudnichestvo sotsialisticheskikh stran. Pod obshchei red. G.M.Sorokina. Moskva, Ekonomizdat, 1962. 334 p. (MIRA 16:2)

1. Akademiya nauk SSSR. Institut ekonomiki mirovoy sotsialisticheskoy sistemy. 2. Chlen-korrespondent Akademii nauk SSSR (for Sorokin).

(Communist countries-Foreign economic relations)

VASIL'TSOV, V.D.; VOLODARSKIY, L.M.; VOLCHENKO, M.Ya.; GALETSKAYA, R.A.; IROV, N.I.; KARINYA, L.F.; KONOVALOV, Ye.A.; MATVIYEVSKAYA, E.D.; PETRESKU, M.I.; RUDAKOV, Ye.V.; SAYFULINA, L.M.; SKVORTSOVA, A.M.; SOKOLOVA, N.M.; SOTNIKOVA, I.A.; STOLPOV, N.D.; SURKO , Yu.V.; TEN, V.A.; TRIGUHENKO, M.Ye.; FIRSOVA, Yu.V.; SHABUNINA, V.I.; YUMIN, M.N.; RYABUSHKIN, T.V., doktor ekon. nauk, otv. red.; ALAMPIYEV, P.M., red.; PAK, G.V., red.; GERASIMOVA, D., tekhn.red.

> [Ecoromy of socialist countries, 1960-1962] Ekonomika stran sotsializma, 1960-1962gg. Moskva, Izd-vo "Ekonomika," 1964. (MIRA 16:12) 261 p.

> 1. Akademiya nauk SSSR. Institut ekonomiki mirovoy sotsialisticheskoy sistemy.

(Communist countries—Economic conditions)

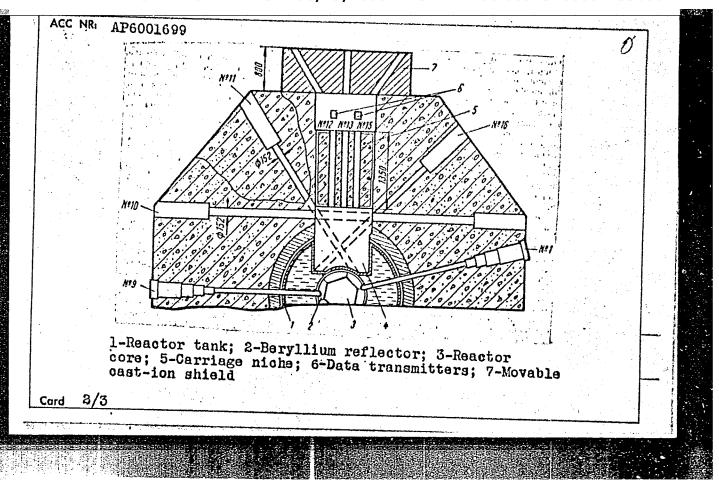
VASIL'YEV, G.Ya.; KONOVALOV, Ye.A.; PANKOV, V.G.; YASHIN, D.A.

Tangential channels and reconstruction of the thermal column of a WWR-M reactor. Atom. energ. 19 no.5:465-467 N 165.

(MIRA 18:12)

= 20304-00 EFF n)-2/EWI(m)/EIC(f)/EWG(m)/EWP(e) WH/WW ACC NR: AP6001699 SOURCE CODE: UR/0089/65/019/005/0465/0467 43 Vasil'yev, G. Ya.; Konovalov, Ye. A.; Pankov, V. G.; AUTHOR: 39 Yashin, D. A. ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSR, Leningrad (Fizikotekhnicheskiy institut AN SSR) Tangent channels and reconstruction of thermal column of the WR-M reactor SOURCE: Atomnaya energiya, v. 19, no. 5, 1965, 465-467 TOPIC TAGS: nuclear research reactor, nuclear reactor technology nuclear reactor component/VVR-M nuclear reactor In order to improve the operation of the VVR-M reactor installed at the Physicotechnical Institute im. A. F. Ioffe, some changes were made in the number and disposition of channels and in the rearrangement of thermal column. The reactor was originally provided with 9 horizontal channels located in concrete shielding. In 1961, a channel, No. 10, was added at a distance of 1390 mm from the core center. 1963, two channels, Nos. 11 and 16, were bored as tangent to the beryllium reflector. Such a tengent position reduced the effect of gamma background on irradiated samples. The thormal column (3040 mm long), originally composed of six graphite disks, was then reconstructed. The 621.039.519

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824330004-7



L 28364-66

ACC NR. AP6001699

last five graphite disks were replaced by one concrete disk carrying four horizontal channels, No. 15 with d = 120 mm, Nos. 12 and 15 with d = 102 mm and No. 14 with d = 80 mm. Channel No. 14 was bored 10 cm shown on Card 2/3. The physical parameters on channels Nos. 1, 10, 11 and 16 were given in a table. The addition of channel No. 10 was sugproposed the channels Nos. 11 and 16. V. S. Gvozdev showed a great activity in creating the targent channels. A gratitude is expressed to D. M. Kaminker (Scientific Supervisor) for his interest and assistance.

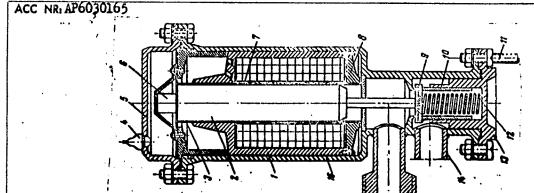
SUB CODE: 18 / SUBM DATE: 21Apr65 / ORIG REF: 002 / OTH REF: 001

Card 3/3 60

Card 1/2

UDC: 621.039.586/587

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824330004-7



The KD-1 electromagnetic valve

1. solenoid case, 2. plunger, 3. brass guiding bush, 4. insulating beed, 5. valve hood, 6. KV-9A limit switch, 7. solenoid coil case, 8, solenoid case lid, 9. teflor ring, 10. locking piston, 11. dowels, 12. spring, 13. valve base, 14. intake pipe, 15. suction pipe

SUB CODE: 18 / SUBM DATE: 27Apr65

Card 2/2

ACC NR. AP6030165

SOURCE CODE: UR/0120/66/000/004/0224/0225

AUTHOR: Konovalov, Ye. A.; Ploshchanskiy, L. M.; Solov'yev, V, A.

ORG: Physicotechnical Institute, AN SSSR, Leningrad (Fiziko-tekhnicheskiy institut AN SSSR)

TITLE: Single action KD-1 electromagnetic air valve with switch on signals

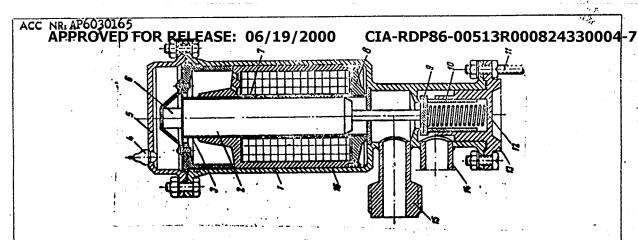
SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1966, 224-225

TOPIC TAGS: reactor control, valve, isotope separation, radioactivity measurement, radiation dosimetry, radiation instrument, ELECTROMAGNETIC PROPERTY

ABSTRACT: In 1962 the dosimetric control system of the VVR-M reactor was equipped with 65 KD-1 electromagnetic air valves of single action with switch on signals. The valves have been operating continuously for 2 years, each switching at least 50,000 times during this period without a single breakdown. Monthly inspections of the tight ness of the air control system disclose that the valves are: overall dimensions - 250 x 120 mm², weight - 4.6 kg, flow-passage cross-sectional area - 16 mm, working voltage - 48 v, type of current - d.c., working current - 0.3 a, signal circuit voltage - 0.5 a, spring pressure on locking piston - 4 kg, stroke of locking piston - 5 mm, temperature of heating surface of valve body at an ambient temperature of +20 C - 45 C, and air leakage at 750 torr - 0.003 1/min, at most. A diagram of the valve is shown below. Orig. art. has: 1 figure.

Card 1/2

UDC: 621.039.586/587



The KD-1 electromagnetic valve

1. solenoid case, 2. plunger, 3. brass guiding bush, 4. insulating bead, 5. valve hood, 6. KV-9A limit switch, 7. solenoid coil case, 8, solenoid case lid, 9. teflor ring, 10. locking piston, 11. dowels, 12. spring, 13. valve base, 14. intake pipe, 15. suction pipe

SUB CODE: 18 / SUBM DATE: 27Apr65

Card 2/2

ACC NR: AP7000795

 (Λ, Λ)

SOURCE CODE: UR/0089/66/021/03/03/36/03/86

AUTHOR: Konovalov, Ye. A.; Ploshchanskiy, L. M.; Solov'yev, V. A.

ORG: none

TITLE: Improvement of the system of stationary dosimetric control of the VVR-M

reactor

SOURCE: Atomnaya energiya, v. 21, no. 5, 1966, 386

TOPIC TAGS: nuclear reactor operation, nuclear reactor control, radiation dosimetry,

nuclear safety/ VVR-M. reactor, USIT-1 dosimeter

ABSTRACT: This is a summary of article no. 112/3573, submitted to the editor and filed, but not published in full. The shortcomings of the earlier system are briefly summarized and it is reported that in the improved system, used for the reactor at the Physicotechnical Institute im. A. F. Ioffee, AN SSSR, these shortcomings have been eliminated to a considerable degree. The air-control system has a more highly branched network of sampling lines, with provision made for manual, semi-automatic, and automatic control. Both counter-type and ionization-chamber pickups can be used to determine the concentration of radioactive gases in the air. Control over the exhaust of the radioactive gases is by means of continuous pumping and is continuously monitored by means of an automatic recorder. The γ radiation is monitored by two type USIT-1 instruments, with additional "cactus" type instruments being used in the hot chambers and in the pump room of the first loop and on the cover of the reactor.

Card 1/2

VDC: 621.039.58

ACC MPPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824330004-7

Automatic visual and sound alarms are provided. It is claimed that the improved system satisfies present sanitary norms and technological requirements, and that experience accumulated in 2.5 years of operation will lead to further improvements.

SUB CODE: 18/ SUBM DATE: 14 Jan66

AMPONON, C.S., kand.med.rauk; KONONALON, Yc.D.

Clinical and X-ray picture of isolated stancels of the palmonary artery. Veol. rant. i rud. 39 rc.643-6 N.D 164.

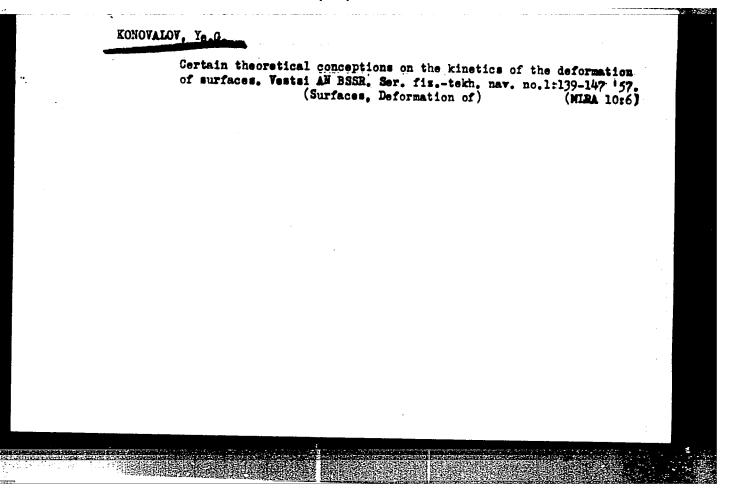
1. Institut eksperimental noy biolog! i madiusiny Ministerstva zdravockhraneniya RSFSR (nauchnyr rukovedital! - prof. Yo.H.

Meshalkin).

KONOVALOV, Ye.F.

Spontaneous rupture of the uterus in early pregnancy. Kaz. Med.
Zhur. no.6:65-66 '62. (MRA 17:5)

1. Fineynaya bolinites stantsii Buzuluk (glavnyy vrach - S.I. Didos') Kubyshevskoy zheleznoy dorogi.



KONOVALOV. Ye.G.

Analyzing cutting kinematics in broaching gears associated with automatic generating. Vestsi AN BSSR. Ser. fiz.-tekh. nav. no.2:
145-159 '57. (MIRA 11:1)

1.Zaveduyushchiy laboratoriyey resaniya Fisioterapevticheskogo instituta AN BSSR. (Gear cutting)

82659

18.5200

S/123/59/000/09/13/036 A002/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1959, No. 9, p. 97, # 33586

AUTHORS:

Konovalov, Ye. G., Sidorenko, Yu. A., Chachin, V. N.

TITLE:

Vibration Grinding of Hard Alloys'

PERIODICAL: Sb. nauchn. tr. Fiz.-tekhn. in-t AN BSSR, 1958, No. 4, pp. 248-255

TEXT: Experiments in using the method of vibration grinding of hard alloys are described. The experiments were performed at FTI AN BSSR. Orinding was carried out with the periphery of a "K360CM2K" (KZ60SM2K) straight-profile grinding disk on a surface-grinding machine. A special electromagnetic vibrator produced the vibratory motion of the "EK8" (VK8) alloy plate in a direction parallel to the disk axis at a frequency of 100 cps and at an amplitude of 2.5 mm. The experiments were performed at a speed of 37.6 m/sec, a longitudinal feed of 3.4 m/min and a grinding depth of 0.08-0.15 mm. Under these conditions, the VK8 alloy plate was subjected to conventional and vibration grinding. In all cases of conventional grinding, cracks and scorches

Card 1/2

KONOVALOV, Ye.G.: YEFREMOV, V.I.

New method for dynamic tesing of metals. Dekl. AN BSSR 2 ne.7:283-287 Ag *58. (MIRA 11:10)

1. Predstavleno akademikem AN BSSR K.B.Gerevym. (Metals--Testing)

KONOVALOV, Ye.G.; GERMANOVICH, I.N.

Electric conductivity as a means for studying films of metal oxides formed during cutting. Dokl. AN BSSR 2 no.9:370-373 0 (MIRA 12:7)

1. Predstavleno akademikom AN BSSR K.V. Gorovym.

(Metallic oxides--Electric properties)

 PHASE I BOOK EXPLOITATION SOF/AD18	Akademiya nauk Delorusakoy SSR. Fiziko-tekhnicheakiy institut	Sportik nauchnykh trudov, vyp. 5 (Collected Scientific Papers of the Institute of Engineering Physics, Acadeay of Sciences Beloruskaya, SSR, Wo. 5) Rninsk, Ind-VA MSSR, 1959. 235 p. Errata alip Liberted. 1,100 copies printed	MA. of Publishing Bouse: L. Mariks; Tech. Ed.: I. Volchimovich; Mitorial Board: V.P. Savorderko, Academician, Academy of Sciences BSSR (Cilef Ed.), K.V. Govery, Academician, Academy of Sciences BSSR, W.R. Borgako, Candidate of Technical Sciences, and P.A. Parkhutik, Candidate of Technical Sciences, and	FURCOX: This book is intended for technical personnel and scientific workers.	COVENAME: This collection of 23 articles covers the following anisotis: anisotis: Anil draft rolling anisyts of Wire-drawing, design of drop-forging dies impact upsating, examination of the effect of temperature on plastic deformation, subjuddation and exhibitation and carburating of temperature on plastic deformation, subjuddation and exhibitation.	Severatorio, V., M.T. Prosvirov, and M.P. Kovyinger. Enal Plant Droy Porging and Design Mercents of Scall-Pash Ines for Porging Bodies of Revolution	Berendanko, V.F., H.T. Prosetrov, and A.V. Tunkov. Effect of 70	Severdenko, V.P., M.P. Frostiroy, and M.Fe. Gevilloy. On the 31se of Flash in Erop-Forging Dies Witshkoy, A.W. Determination of Accelerations and Porces in 84 Impact Opsetting	x Numbor, A.V. Efficiency of Impact In Thesting Steel Elamics With Various Elameter-to-Esight Ratios on a Vertical Upsetter 90	Makunick, Te.H. Weanuring Unit Pressures in the Die Cavities 94	Miras, W.S. Resistance of Steel to Deformation at Close-to- Willia Numberstures	Dobrorol sidy, g.r. Effect of Temperature and Rate of Strain on the Machanical Properties of Silver Chloride	Over E.V., LA, Inpoper, and Z.D. Parlenko. Moutralization of Last In the Berralt-95 Alloy [59.25 N. 206c, 165 Co. 120 3ft., 1-7540.	Accord IV., V., Eaterfell, H.M. Taleburko, and I.S. Farelynera. Effect of Carbural of The Farelyne of The Mechanical Projection 133 and Composition of the library infrance in 20nn Steels 133	Bodreis, M.N., W.M. Lorko, B.L. favlurkerish, and V.I. ferthi- mortin. Respitationation Amening of Copper With High-Fre- quency Current Beating	Konovalov, Yo.0. Methods for Development of New Processes in 158 Mechanical Marking of Metals	Menorelogy & o. d. W.H. Chachin. Investigation of Surface 178 Chalics in Theretory Grinding of Carbide Alloys	Edgratherioh, L.O., and M.M. Olechnowich. Examination of a Low- Wolkey blies metharge by the Polich of The Scanning of Light- ing of Manli Portions of the Edgeharge Zore	Mekrasharish, I.G., and R.M. Glekhnorish. On the Mechanism of Thencena [Occurring] on Electrons During Electric-Pulse Elscharges in the Air at Amospheric Pressure	Meranherich, I.G., and E.H. Clekhnorich. On Phenomes [Courring] on Electrodes in Electric Pulse-Discharge Through a Thin Metal.	'Rekuto, I.A. Dependence of Electro-Frosion Effect [on Electrodes] on Conditions of Electric Machange	Ronnaldain, B.Ta. Froblems in the Assuracy of Magnetic Tacho- meters	Emborator, In.d., and I.S. Lobachevady. Investigation of the Cold-Ertir of Holes Hith hotary bull-burntahars	
-,			· · ·					5	*	<u>, </u>				 0) · A	h	!	107	<u> </u>		g		•	
	20400		1010																				5.	

KONOVALOV, Ye.G. [Kanavalau E.H.], kand. tekhn. nauk; CHACHIN, V.N. [Chachyn. V.M.] Dynamics of the vibration grinding of hard alloys. Vestel AN BSSR. Ser. fiz.-tekh. nav. no.1:19-24 159. (MIRA 12:7) (Grinding and polishing)

KONOVALOV, Ye.G.; AVRUTIN, A.M.; SIDORENKO, Yu.A.; LOBACHEVSKIY, I.S.

Machining holes by rotary mandrels. Stan. 1 instr. 30 no.1:29-30
Ja '59.

(Drilling and boring machinery)

(Drilling and boring machinery)

23471

1.1100

S/123/61/000/009/002/027 A004/A104

AUTHOR:

Konovalov, Ye.G.

TITLE:

Methods of creating new ways of mechanical tooling of metals

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 9, 1961, 42, abstract 9B266 ("Sb. nauchn. tr. Fiz.-tekhn. in-t AN BSSR", 1959, no. 5,

158 - 177)

TEXT: The author has developed a method of designing new ways of mechnical tooling based on the principle of the combination of the functional diagrams of cutting. The method is illustrated with the aid of an example of developing a new method of machining cylindrical surfaces. Various cutting systems are analyzed from the viewpoint of a solution of the following problems: chip crushing, deflection of the part being turned, short tool life, unsatisfactory microgeometry of the surface layer and the comparatively low efficiency of the turning method. The most expedient is a combined functional diagram based on the turning with six rotating tools clamped in one common clip (the rotation axis of the tools agrees



Card 1/2

Card 2/2

88586

\$/123/61/000/002/005/017 A005/A001

11100

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1961, No. 2, p. 58,

28488

TITLE:

Konovalov, Ye. G., Chachin, V. N. AUTHORS:

ates in your profes to be profes in the

An Investigation of the Surface Quality at Vibro-Grinding of Hard

Alloys

"Sb. nauchn. tr. Fiz.-tekhn. in-t AN BSSR", 1959, No. 5, pp. 178-188 PERIODICAL:

The authors report on the results of investigations of the vibrogrinding process of hard alloys on a universal grinding machine and a surface-TEXT: grinding machine with vibrators. During the investigation, the roughness of the surface was determined depending on the cutting depth, the table- and cross feed, and the characteristics of the grinding wheel at vibro-grinding (frequency - 100 cps) and without vibrations. It turned out that the vibro-grinding increases the efficiency by 2-3 times; the fine roughness ($H_{av} = 2-4$ micron) can be obtained with t = 0.06 - 0.08 mm per 2 to-and-fro motions of the table. The vibro-grinding sharply decreases the danger of the appearance of searings and cracks and makes it possible to apply disks of black silicon carbide which yield the same

Card 1/2

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824330004-7

23267

1.1100

8/123/61/900/005/007/017 A004/A104

AUTHORS:

Konovalov, Ye. G., Lobachevski, I. S.

TITLE:

Investigating the process of hole machining by rotary mandrels

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 5, 1961, 71, abstract 5B634. (Sb. nauchn. tr. Fiz.-tekhn. in-t, AN BSSR, 1959, no. 5,

230-235)

TEXT: The authors describe the design and tests of rotary mandrels for the finish machining of internal cylindrical surfaces without removal of chips, The investigation was carried out on specimens of the steel grades 15, 20, 35 and 45 in holes which were reamed by a 1 : 200 tapered reamer, so that the allowance on the diameter continuously varied from 0 to 0.2 mm. The mandrel diameter was 50 mm, the ball diameter 9.5 and 12.7 mm respectively. The investigation showed that the optimum allowance is in the range of 0.08 - 0.1 mm. The surface finish is in the range of the 9th class. There is 1 figure and 6 graphs,

S. Livshits

[Abstractor's note: Complete translation]

Card 1/1

18(7)

©5284 SOV/170-59-7-15/20

AUTHORS:

Kenovalov, Ye.G., Germanovich, I.N.

TITLE:

An Investigation of Films of Metal Oxide During Grinding and Milling by the Electric Conductivity Method

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1959, Nr 7, pp 92 - 95 (USSR)

ABSTRACT:

There are statements in previous investigations on the possibility to establish, by means of the electric conductivity method, the nature of an oxide film covering metals in oxidation. In order to check this possibility, the authors studied by this method the films of metal oxides during the milling of St. 45 and cast iron and during the grinding of steel of the 40Kh grade and cast iron. The results of these studies are shown in Figures 2 and 3. As it is seen from these graphs, there is no noticeable decrease of electric conductivity with an increase in the speed of both milling and grinding, if current is fed through a current collector. If, however, current is fed directly into a machine tool without the current collector, a slight decrease of electric conductivity is observed up to a cutting speed of 400 m/min; at a further increase of the cutting speed, electric conductivity rises. A reason for this the authors see in the probable origination of extra-currents of disconnection.

Card 1/2

KONOVALOV, Ye.G.; CHACHIN, V.N.

Thermal studies on the vibration grinding of a hard alloy. Dokl, AN BSSR 3 no.11:452-455 E '59.

(MIRA 13:4)

1. Predstavleno akademikom AN BSSR K.V. Gorevyn.

(Grinding and polishing) (Alloys-Thermal properties)

PHASE I BOOK EXPLOITATION

SOV /5241

Konovalov, Yevmeniy Grigor'yevich, and Yevgeniy Iosifovich Pyatosin

Obrabotka ploskikh poverkhnostey sharikovymi golovkami (Ball Burnishing of Plane Surfaces) Minsk, Izd-vo AN BSSR, 1960. 19 p. 3,000 copies printed.

Sponsoring Agency: Fiziko-tekhnicheskiy institut AN BSSR. Laboratoriya novykh metodov obrabotki materialov.

Ed.: R.L. Tofpenets, Candidate of Technical Sciences; Ed. of Publishing House: L. Timofeyev; Tech. Ed.: I. Volokhanovich.

PURPOSE: This booklet is intended for designers and operators of burnishing tools.

COVERAGE: Ball burnishers are discussed from the standpoint of their design, kinematics, macrogeometry, and other data relative to their construction and use. Cold working processes are mentioned briefly. No personalities are mentioned. There are nine references, all Soviet.

Card 1/2

KONOVALOV, Tevmeniy Grigor'yevich; BORISENKO, Aleksendr Vesil'yevich; FEDOROV, L.I., kend.tekhn.nauk, red.; TIMOFETEV, L., red.izd-ve; VOLOKHANOVICH, I., tekhn.red.

[Vibration turning] Ostsilliruiushchee tochenie. Minsk, Isd-vo Akad.nauk BSSR, 1960. 30 p. (MIRA 14:1) (Turning)

S/123/61/000/015/021/032 A004/A101

AUTHORS: Konovalov, Ye. G., Germanovich, I. N.

TITLE: Method of electric conductivity and investigation of oxide films of

metals during turning

PERIODICAL: Referativnyy zhurmal, Mashinostroyeniye, no. 15, 1961, 36, abstract

15B227 ("Sb. nauchn. tr. Belorussk. in-t mechaniz. s.kh.1960, no. 4,

274-276)

TEXT: The investigations were carried out under insulation of the cutting tool and the blank by means of an installation with special mechanical current collector which made it possible to collect the current during the turning process of the specimens without distortions. To determine the type of oxide films, the current polarity was changed. When the current was supplied through the current collector, no noticeable decrease in electric conductivity with an increase in the turning speed up to 226 m/min could be observed. There are 3 figures.

M. Degtyareva

[Abstracter's note: Complete translation]

Card 1/1

309116

1.1100

S/571/60/000/006/011/011 E194/E135

AUTHORS:

Konovalov, Ye.G., and Borisenko, A.V.

TITLE:

Certain operating characteristics of an oscillating

cutter

SOURCE:

Akademiya navuk Belaruskay SSR. Fiziko-tekhnicheskiy institut. Sbornik nauchnykh trudov. no.6. Minsk, 1960.

216-227

TEXT: In lathe turning operations the chip tends to wind itself round the tool and work piece and can be a considerable nuisance. Existing types of chip breaker are not reliable, and for automatic machines and production lines it is necessary to develop new methods of turning which overcome the problem of chip breaking. One such method is that in which the cutter is given an oscillatory motion in the direction of the feed. Cutting then takes place with variable feed and the chips resemble those formed during milling. In the Laboratoriya novykh metodov obrabotki materialov (Laboratory for new methods of working materials) of the FTI AN BSSR an oscillating cutter head was designed for a turning lathe type 1A62. The construction

card 1/0

SCHOOL BESCHIEBERGE VERSCHIEBERGE

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824330004-7"

30946 S/571/60/000/006/011/011 E194/E135

Certain operating characteristics... E194/E135

is illustrated schematically in Fig.1. The tool 1 in the tool holder 2 is made to oscillate along the axis of the work piece by the cam 3 which is driven along a spline shaft 4 through the gearing 5. The tool holder is held against the cam by springs. The amplitude of oscillation is altered by changing the cam shape but a fine adjustment 7 is also provided. In another design the cam was driven by a separate motor of 0.6 kW. The tests were made with cutters tipped with the carbides T5 KlO and T15K6 working steels 20, 45 and 18XFT (18KhGT). The cutter geometry was: a) $\varphi = 90^{\circ}$; $\varphi_1 = 6^{\circ}$; $\lambda = 0^{\circ}$; $\gamma = 7^{\circ}$; $\alpha = 11^{\circ}$; r = 0.5 mm. b) $\varphi = 60^{\circ}$; $\varphi_1 = 26^{\circ}$; $\lambda = 0^{\circ}$; $\gamma = 7^{\circ}$; $\alpha = 11^{\circ}$; r = 0.5 mm. [Abstractor's note: In Soviet terminology φ = plan angle, ϕ = working trail angle, λ = cutting edge side rake, γ = rake and α = clearance; r is presumably nose radius.] Theoretical formulae are derived for the instantaneous rate of feed of the oscillating cutter and expressions are derived for the conditions when the feed is zero so that the chip must break. Then an expression is obtained for the amplitude necessary to cause chip breakage. However, the actual amplitude differs from that calculated because of elastic vibration of the lathe, the tool and Card 2/8

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824330004-7

30946

Certain operating characteristics ... \$/571/60/000/006/011/011

the part and moreover it is not always necessary to reduce the feed to zero to ensure chip breaking. Accordingly, tests were made to ensure chip breakage under different cutting conditions. The amplitude of oscillation was measured by a vibrograph which recorded on a moving tape fitted on the tool holder. Fig. 2 shows a graph of the minimum amplitude in mm as function of the feed rate in mm/rev. for steel grade 18KhGT (dotted line) and steel 45 (solid line). It is found that the minimum amplitude to ensure chip breakage is greater than the calculated value by some 20-30%. In the case of the tough steel grade 18KhGT the minimum amplitude is proportional to the feed; however, for steel grade 45 at feeds greater than 0.25 mm/rev. proportionality is not observed. This is because the break occurs where the chip is thin. tests showed that the use of emulsified cutting oils reduced the stable value of the minimum amplitude. The minimum amplitude is increased with increasing depth of cut. However, changes in the cutting speed (in the range 62-190 metres/min) or in the rake angle of the cutter (from -5 to $+15^{\circ}$) or in the cutting edge side rake (-5 to +15°) have practically no influence on the minimum By introducing empirical coefficients into the Card 3/8

Certain operating characteristics ... \$\frac{309\lb}{577760/000/006/011/011}\$\$\$E194/E135

theoretical formula the following expression is obtained for the minimum amplitude necessary to ensure chip breaking:

$$A_{\min} = q_{\phi} q_{t} q_{o} q_{\mathcal{K}} \frac{S}{1.5 | \sin \pi \frac{f}{n}|}$$
 (7)

where values of q are taken from Table 1.

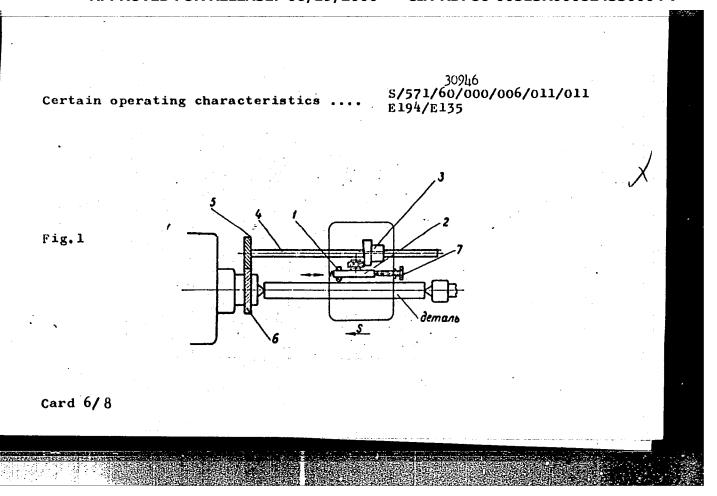
When an oscillating cutter is used the finish is not so fine as with a normal tool. It was found that the smoothest surface was obtained for ratios of oscillation frequency to spindle speed which give the minimum amplitude for chip breaking, i.e. when this ratio is 0.5, 1.5 or 2.5. Fig.7 shows a graph of the relationship between the surface roughness in microns and the ratio of the frequency of oscillation to the spindle speed where V = 70 m/min, S = 0.5 mm/rev., t = 2 mm, using steel grade 45. The dotted line shows the surface roughness with normal cutting methods. The influences of feed, cutting speed and use of cutting fluid and depth of cut on surface finish with an oscillating cutter are much the same as with an ordinary tool. The variations in rate of feed with an oscillating cutter would tend to promote tool wear, and so Card 4/8

Certain operating characteristics ...

30946 \$/571/60/000/006/011/011 E194/E135

will the increase in the impact loading. On the other hand, with an oscillating cutter the cutting edge periodically leaves the cutting zone so that it runs cooler. This was confirmed by measuring the electromotive force between tool and workpiece which was less with an oscillating cutter than with a normal tool. Tool wear studies showed that with an oscillating cutter in the majority of cases the tool performance was 30-40% better than with a normal tool. It is considered that an oscillating cutter can be successfully used on ordinary turning lathes and it is particularly effective when used on automatics or on automatic lines. There are 11 figures, 1 table and 6 Soviet-bloc references.

Card 5/8



Certain operating characteristics ...

30946 \$/571/60/000/006/011/011 E194/E135

Table 1 Correction factors for the amplitude of oscillatory motion of cutter as function of:

ı.	Principal angle in	Principal angle in plan φ, deg.	45	60	75	90,			
plan		Coefficient q _{\phi}	1.25	1.16	1.08	1.0			
2. Depth of cut		Depth of cut, t, mm	0-2	2-4	4-6	6-8			
		Coefficient q _t	1.0	1.09	1.18	1.3			
3. Use of		Nature of work	with co	ooling	without cooling				
	cutting fluid	coefficient q		0.92	1	•0			
4.	Rigidity of work	Rigidity of work piece L/D	L/D < 5	L/D = 5÷	10 L/D =	L/D = 10-15			
	piece	Coefficient q _x	0.9	1.0	1	1.2			

Card 8/8

KONOVALOV, Ye.G.; BORISENKO, A.V.

Dynamics of oscillating turning. Dokl.AN BSSR 4 no.8:340-342
Ag '60. (MIRA 13:8)

1. Fiziko-tekhnicheskiy institut AN BSSR. Predstavleno akad. AN BSSR K.V.Gorevym.

(Turning)

KONOVALOV, Yevmoniy Grigor'yevich; SEVERDENNO, V.P., akademik, retemzent; COREV, K.V., akademik, red.; KHOLYAVSKIY, S., red. izd-va; VOLOKHANOVICH, I., tekhn. red.

[Fundamentals of new methods for machining metals] Osnovy novykh sposobov metalloobrabotki. Minsk, Izd-vo Akad. nauk
BSSR, 1961. 296 p. (MIRA 15:3)

1. Akademiya nsuk Belorusskoy SSR (for Gorev, Severdenko).

(Metalwork)

KONOVALOV, YE. G., DOC TECH SCI, "THEORETICAL PRINCIPLES

OF NEW METHODS OF METAL WORKING." MINSK, 1961. (ACAD

SCI BSSR. DEPT OF TECH SCIENCES). (KL-DV, 11-61, 216).

-104-

KONOVALOV,

1.1100

32203 S/201/61/000/003/006/006 D299/D305

AUTHORS:

Kanavalaw, Ye. R. and Hermanovich, I. M.

TITLE:

On the penetration of cutting fluid into the cutting

region during mechanical metal-working

PERIODICAL:

Akademiya nauk Bielorusskoy SSR. Izvestiya. Seriya fiziko-tekhnicheskikh nauk. no. 3, 1961, 115-119

TEXT: The effect of vibrations on the cutting process is considered. In the authors' opinion, the vibrations which arise in metal cutting facilitate the penetration of the cutting fluid into the cutting zone, thereby wear is reduced and the metal working improved; this applies to vibrations of small amplitude and high frequency (ultrasonic). This hypothesis was verified by means of special experimental procedure. The vibrations were generated by the ultrasonic generator $\gamma_3M-1.5$ (UZM-1.5) of power 1.5 kilowatt. Three types of cutting fluid were investigated: ordinary water, an emulsion and cutting oil. The height of the fluid column in capillary tubes was investigated after connecting and disconnecting

Card 1/2

S/571/61/000/007/009/010 I048/I248

AUTHORS:

Konovalov, Ye.G., and Dorozhkin, N. N.

TITLE:

A new method for gauging ring-shaped parts

SOURCE:

Akademiya nauk Felaruskay SSR. Fiziko-technicheskiy

institut. Sbornik nauchnykh trudov. no.7. 1961. 184-189

TEXT: A new, simplified method for the fine adjustment of the internal and external diameters of cast, stamped, forged, or sintered metal parts, are described; the diameters are adjusted through plastic deformation alone, using a die for the external diameter and a floating, round-headed plunger for the internal diameter, on a 40-ton hydraulic press. The dies and plunger are made of a hardened YBT (KhVG) alloy (Cr-W-Mn), and their surfaces are finished to a high degree of smoothness. In experiments with sintered .ring-shaped parts consisting of perlite + 10-15% ferrite (Brinell hardness 50-70 kg./sq.mm.) external diameters ranging from 34.12 to 34.26 mm. were adjusted to 33.94 to 33.98 mm. while internal diameters ranging from 16.95 to 17.03 mm. were adjusted to 16.98

Card 1/2

KONOVALOV, Ye.G.; STEPANOV, V.P.

Equipment for the investigation of oblique-angle cutting by the optical-polarization method. Sbor. nauch. trud. Fiz.-tokh.inst. (MIRA 15:7)

AN BSSR no.7:190-198 '61.

(Metal cutting--Testing)

41998 \$/571/61/000/007/010/010 1048/1248

1,1720

AUTHORS: Konovalov, Ye.G., and Lobachevskiy, I.S.

TITLE:

An investigation of the depth of the strain-hardened layer and the wear-resistance of the hardened surface after rotary ball-burnishing of internal cylindrical

surfaces

SOURCE:

Akademiya nauk Belaruskay SSR. Fiziko-tekhnicheskiy institut. Sbornik nauchnykh trudov. no.7. 1961. 200-203

TEXT: Rotary ball-burnishing is a new cold-working process producing plastic deformation in metallic surfaces with a consequent increase in hardness; the process is described in the book "Rotatsionnoe dornirovanie", by the same authors, published by the BSSR Academy of Sciences, 1959. The depth of the strain-hardened layer produced is practically independent of variations in the rate of burnishing within the range 50-500 m./min., and increases slightly with a decreased ball diameter. The maximum depth produced under optimum conditions is 1.9-2.2 mm. in steel Cm-15

Card 1/2

s/0000/63/000/000/0192/0198

ACCESSION NR: AT4030805

AUTHOR: Konovalov, Ye. G.; Germanovich, I.N.

TITLE: The effect of high frequency (ultrasonic) vibrations on the passage of liquid media through capillary channels

SOURCE: AN UkrSSR. Institut metallokeramiki i spetsial ny*kh splavov. Poverkhnostny*ye yavleniya v rasplavakh i protsessakh poroshkovoy metallurgii (surface phenomena in liquid metals and processes in powder metallurgy). Kiev, Izd-vo AN UkrSSR, 1963, 192-198

TOPIC TAGS: high frequency vibration, ultrasonic vibration, capillary channel, liquid medium

ABSTRACT: In this paper, the authors studied the effect of ultrasonic vibrations under various conditions (capillary diameter, temperature) on a liquid medium in a capillary channel. The results are presented in graphs. Ultrasonic influence on the passage of liquid media through capillary channels is a new, little studied phenomenon. Only the first steps have been made in the study of this problem; before it lie even greater efforts. Many questions still must be answered in order to explain the physical nature of this phenomenon and its pratical application in industry. It

Cord 1/2

KONOVALOV, Ye.G. [Kanavalau, IA.R.]; GERMANOVICH, I.N. [Hermanovich, I.M.]

Effect of high-frequency vibrations on the penetration of lubricants and coolants into the cutting zone during the mechanical working of metals. Vestsi AN BSSR. Ser. fiz.-tekh. nav. no.3:98-100 '63. (MIRA 16:10)

26.1420

S/170/63/006/003/012/014 B104/B186

AUTHORS:

Konovalov, Ye. C., Germanovich, I. N.

TITLE:

The influence of temperature on the rise of liquid in a capillary under the action of high frequency vibrations

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 6, no. 3, 1963, 103 - 105

TEXT: The capillary rise of a liquid is largely determined by the surface tension of the liquid and consequently decreases with increasing temperature. If the liquid vibrates with ultrasonic frequencies in the direction of the capillary axes, the rise is greater and increases with temperature. Water, an emulsion of commercial acidel, and lubricating dl were subjected to 23.5 kes in glass tubes of various diameters. The increase in capillary rise was measured in the 0 - 80°C range. The height to which water rises in a capillary tube with an inner diameter of 0.484 mm.increases from 30 mm at ≈ 5 °C to 90 mm at ≈ 70 °C. Similar results are obtained for other liquids under different conditions. There are 2 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institutAN BSSR, g. Minsk (Physico-technical Institute AS BSSR, Minsk)

CART 1/2

KONOVALOV, Ye.G.; SKRIPNICHENKO, A.L.

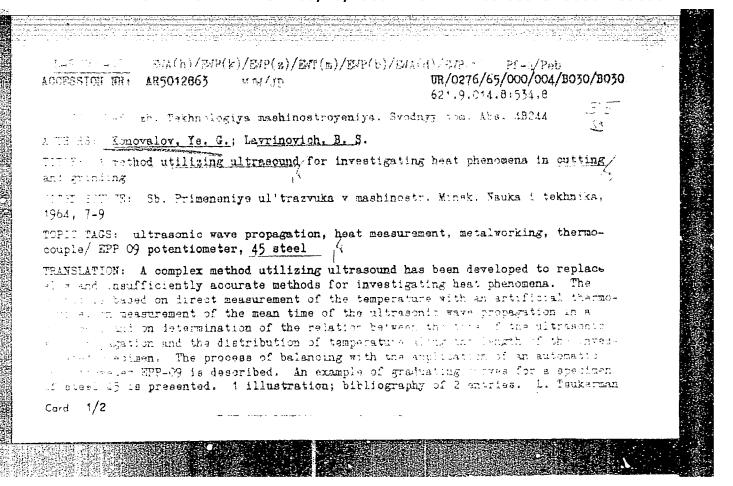
Effect of cyclic loading of an ultrasonic frequency on the static mechanical characteristics of copper. Dokl. AN BSSR 7 no.12:817-820 D 163. (MIRA 17:8)

1. Fiziko-tekhnicheskiy institut AN BSSR. Predstavleno akademikom AN BSSR V.P. Severdenko.

KONOVALOV, Ye.G., dektor tekhn. nauk, prof., otv. red. [Plasticity and metalworking by pressure] Plastichnost' i obrabotka metallov davleniem. Minak, Nauka i tekhnika,

(MIRA 17:12) 1964. 320 p.

CIA-RDP86-00513R000824330004-7" APPROVED FOR RELEASE: 06/19/2000



ACCE	SSION	HR: AR	5012863						0		
		IE,TI		erania de la composición del composición de la composición de la composición del composición de la com	 EHCL	halet <u>ede</u> a e a	 n and a second	anne de la	Transmission and part of the second		
	بمخيدة										
Car	d 2/2	-				 		•		1 .	- 1

14473-66 EWT(m)/EWP(t)/EWP(b)/EWA(h) IJP(c) JD ACC NR AR5013267 UR/0277/65/000/004/0017/0017 SOURCE: Ref. zh. Mashinostroitel nyye materialy, konstruktsii i raschet detaley mashin. Gidroprivod. Otd. vyp., Abs. 4.48.128 AUTHOR: Konovalov, Ye.Q.; Dovgyallo, I.Q. TITIE: Change in microhardness of copper in the process of cyclic application of ultrasonic frequency CITED SOURCE: Sb. Primeneniye ul'trazvuka v mashinostr. Minsk, Nauka i tekhnika, TOPIC TAGS: copper, ultrasonic inspection TRANSIATION: The effect of tensil strength and compression on the microhardness of copper were investigated. The study was carried out at a constant 20 kc oscillation frequency and various amplitudes, on a sample face: 0.012, 0.008 and 0.006 mm. This accordingly produced the following stresses in the central part of the sample: 17.0, 11.40, 8.55 kg/mm². The samples were tested in two states: (1) annealed at 550°C for 2 hrs, and (2) previously deformed (strain hardened) by tortion (\$\phi720\$ and 1440°C). The microhardness of the annealed Cu increases sharply with an increase in the number of cycles at the beginning, dropping slightly thereafter. However, it remains constantly higher than the initial one. The difference in the strain hardening and softening processes is the more noticeable the higher the cyclic stress. Card 1/2

EWT(m)/EVP(u)/EWA(d)/EVP(t)/T/EWA(h) <u>(. 16733-66</u> UR/0277/65/000/004/0014/0014 ACC NR: TAN5013266 SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley B mashin. Gidroprivod. Otd. vyp., Abs. 4.48.106 AUTHOR: Konovalov, Ye.G.; Remizovskiy, E.I. TITIE: Effect of ultrasonic frequency oscillation on the creep characteristics of D16 aluminum alloy CTMED SOURCE: Sh. Primeneniye ul'trazvata v mashinostr. Minsk, Nauko i tekhnika, 1964, 41-46 TOPIC TAGS: netrocoming ultrasonic vibration, ultrasonic metal inspection, aluminum alloy, creep, annealing, material deformation, DIGT aluminum alloy TRANSIATION: The effect of HF-oscillation and the simultaneous application of a static load (Ust6.5k/mm²) were studied in testing DIGT alloy, annealed at 370°C (5 hrs) for creep. Applying oscillation during test for creep simultaneously with a static load increases the total creep deformation and the rate of creep, especially in the initial stage of the test. The reliminary application of ultrasonic oscillations strengthens the D16r aluminum alloy slightly. This is expressed in a decrease in the rate and the total deformation of creep. 9 references. ws:669.715:539.376 SUB CODE: SUBM DATE: none Card 1/1**Amp**

EWT(m)/EWP(w)/EWA(d)/EWP(t)/EPR/EWP(k)/EWP(b)/EWA(c) 53933-65 UR/0276/65/000/006/B067/B067 JD/HW/EM ACCESSION NR: AR5017262 SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya. Svodnyy tom, Abs. 68628 AUTHORS: Konovalov, Ye. G.; Rimskiy, V. K.; Yefremov, V. I. TITLE: Removal of residual stresses with ultrasound ofter rotational machining CITED SOURCE: Sb. Primeneniye ulitrazvuka v mashinostr. Minsk, Nauka i tekhnika, 1964, 51-56 TOPIC TAGS: residual stress, stress relaxation, rolling mill, ultrasound effect THANSLATION: For finishing of internal surfaces with open contours (cylinders having large openings and grooves), a full-contact rotational roller mandrel, whose length is equal to or somewhat longer than the length of the cylinder, was used. To remove the residual stresses originating in the rolling process, after machining the cylinders were subjected to ultrasound for 10 minutes at an operating frequency of 20 kc and ultrasonic power delivered to the vat of 1.25 km. A rotational mandret with radial feed insures obtaining openings of second-class accuracy and 8-10th class finish under the condition that the machining telerance Card 1/2

L 53933-65 ACCESSION NR: A	AR5017262		er e en e	0	
finishing of cy	lindrical sw	the initial surface finiting an open content of honing. The residual paraphy of 8 entries,	ntour (including gro dual stresses can be	removed	•
SUB CODE:	AS, IE	ENCL: 00			
		and the supplier of the suppli			
			F - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -		

I 16732-66 EWT(m)/EWA(d)/EWP(L)EWP(k)/EWA(L) ACC NRI άĽ UR/0277/65/000/004/0004/0004 SOURCE: Ref. zh. Mashinostroitel nyye materialy, konstruktsii i raschet detaley mashin. Gidroprivod. Otd. vyp., Abs. 4.43.25 AUTHOR: Konovalov, Ye.G.; Skripnichenko, A.L.; Dovgyallo, I.G.; Remizovskiy, E.I. TITIE: Effect of ultrasonic oscillations on the mechanical properties of some metals CITED SOURCE: Sb. Primeneniye ul'trazvuka v mashinostr. Minsk, Nauka i tekhnika, TOPIC TAGS: ultrasonic inspection, ultrasonic vibration, alloy, alloy atual, copper, solid mechanical property, low earbon sheet DIGT alloy
TRANSIATION: Methods and the results are given of an investigation of the effect of ultrasonic frequency oscillations on the mechanical properties of DIGT alloy copper, and iron on tensile strength, torsion and creep. The simultaneous effect of cyclic and static loads, created by ultrasonic oscillations during tensile strength test of DIST alloy and copper (Cu-99.90%), shows a significant decrease in their mechanical characteristics. For example: the the for the DIST-alloy (tempered and naturally of the oscillation amplitude. Also, during tortion test of DIST-alloy and low-carbon steel (0.06%) the ultrasonic oscillations considerably decrease their mechanical characteristics. The application of the ultrasonic frequency oscillation to a static Card 1/2 UDC:[669.715+669.3+669.1]:539.4

lo	ad in t	esting	the cre	ep increa erences.	ses the	total and	the in	itial c	reep d	eform	tion.	0	
1	G CODE:			rences •	₩.	Win 09			•				
			/		SUBM	DATE: NO	one				ur.	:	•
	•			•					· .	·.		•	
										٠.			
	÷											**;	
												•	
			- -										-
							•						•
								•					ſ
Co	rd 2/2	, Amp	· ·										

IJP(c) WMA(h)/EMF(k)/EWMA(c)/EWF(n)/EWP(b)/EMA(d)/EMP(t) Ju, im, 63 \$/0000/64/000/000/0091/0097 10 TOTON MR: AT5006708 8+1 Konovalov, Ye. G. (Doctor of technical sciences, Professor); an ant shorko, A. Li or elect of ultrasound on the process of ollowaring common tal true. AN BSSR. Fiziko-tekhnicheskiy institut. Plastichnost' i obrabotka all a davleniyem (Plasticity and metalworking by pressure). Minsk, Izd-vo Nauka i tekhnika, 1964, 91-97 TOPIC TAGS: ultrasound, tensile testing, yield point, low carbon steel, stress raiser, commercial iron, stress elimination ABSTRACT: This article describes investigations of the effect of ultrasonic vitrations on the st ength and ductility of commercial iron, the primary feature of the tests being that the static and vibratory loads were applied simultaneously during elongation of the specimen. An ultrasonic generator with a magnetothe escillator operating at 21 kc was used as the source of the vibratory . Prasonic frequency. The amplitude of the oscillations was measured at the thir of the specimen by a microscope. The test specimens were made out of The limiter rods, annealed in a vacuum at 600C for 3 hrs, cooled down with the Card = 1/2

1 79983-65 2 ACCESSION NR: AT5006708 turnace to 400 C, and then cooled in sir. The tensile tests were carried out at exation rate of 10 mm/min. The investigation revealed that the superpositras oir vibrations on the process of elongation of commercial iron all its mechanical properties, this time tepening in the amplitude of of pressure working of metals. Originaticle has likeble, 4 figures resulas. 「「C語」 Rose 398 300E:1M FML 1612中的 OTHER: UU? M. REF 507: 003 2/2/19 Card

1 30082-65 EPR/SML(h)/SWP(k)/S TG-1/CO IUP(c) :UT/JD/M/OS	mp(z)/mA(c)/mm(n)/mp(n)/mp(n)/mp((t) Pf-4/
ACCESSION NR: AT5006709	\$/0000/64/000/000/0102/0103	
AUTHOR: Konovalov, Ye. G. (Doc Dovgyallo, I. G.	etor of technical sciences, Professor)	; -/ · in an ultra-
sonic field at elevated tempera	atures /	
metallov davleniyem (Plasticity Nauka i tekhnika, 1964, 102-103		
D16T alloy	orsional strength, ultrasound, aluminu	
process of static torsion in testpieces were annealed at 36 room temperature. The working 10 mm. The experiments were c	lies on the effect of ultrasonic vibral D16T alloy at elevated temperatures a 60C for 5 hrs. and cooled down with the length of the specimen was 70 mm and carried out with and without the specimen the torsional strength in both case specimen in the specimen owing to the above	e furnace to the diameter mens being s was the same,
Card 1/2		

L 39982-65

ACCESSION NR: AT5006709

ultrasound was negligible. The temperature of deformation varied from 20 to 100, 150, 200, 250 and 300C. It was found that the process of static torsion of annealed Diff alloy in an ultrasonic field with an amplitude of vibration of 0,006 mm at the end of the specimen led to a decrease in the true torsional strength by 3.4 kg/mm², with this difference remaining constant over the entire range of test temperatures. Orig. art. has i table.

ASSOCIATION: None

SURMITTED: 16May64

ENCL: 00

SUB CODE: MM

NO REF SOV: 006

OTHER: 001

EPR/EWA(h)/EWP(k)/EWP(z)/EWT(d)/EWT(1)/EWT(m)/EWP(h)/TWP(b)/T/EWA(d)/EWP(h)/TWP(b)/T/EWA(d)/EWP(h)/EWP(h)/TWP(b)/T/EWA(d)/EWP(h)/EWP(h)/TWP(b)/T/EWA(d)/EWP(h)/EWP(h)/TWP(b)/T/EWA(d)/EWP(h)/EWP(h)/TWP(h)/TWP(h)/EWP(h)/TWP(h)/EWP(h)/777 (v)/EWP(t)/ Pf-4/Pi-4/Ps-4/Peb ज्यम्(भ) 50 \$/0000/64/000/000/0128/0133 ACCESSION NR: AT5006712 6+1 AUTHOR: Konovalov, Ye. G. (Doctor of technical sciences, Professor); Remizovskiy, TITIE: A device for conducting creep tests on materials in an ultrasonic field SOURCE: AN BSSR. Fiziko-tekhnicheskiy institut. Plastichnost i obrabotka metallow davleniyem (Plasticity and metalworking by pressure). Minsk, Izd-vo Nauka i tekhnika, 1964, 128-133 TOPIC TAGS: creep test, ultrasonic field, metal sonication, work hardening, aluminum alloy creep / D16T alloy ABSTRACT: This article describes a device for creep tests with the application of ultrasonic vibrations and gives the results of an investigation of the effect of processinary treatment with ultrasound on the creep characteristics of D16T - alley at 250C. The device, which is a modernized version of the VIA FIR-11 table-model machine for testing creep, is depicted and described in retail. Il specimens were exposed to ultrasonic radiation in the air for 15, 30, 45, and 40 seconds after which they were placed in the machine, heated for an Card 1/2

L 39984-65

ACCESSION NR: AT5006712

hour, and then creep tested for 90 min. at 250C with the application of only a static load. The creep tests on previously sonicated specimens of DI6T aluminum allow demonstrated that the creep rate drops markedly due to work hardening of the material during exposure to ultrasonic waves, Orig. art. has: 2 figures.

ASSOCIATION: None

SUEMITTED: 16May64

ENGL: 00

SUB CODE: MM

NO REF SOV: 005

OTHER: 002

Card 2/2/11B

BEZZUBOV, Aleksey Dmitriyevich; CARLINSKAYA, Yevgeniya Il'ichna;
FRIDMAN, Viktor Mironovich; KONOVALOV, Ye.G., prof., spets.
red.; KOVALEVSKAYA, A.I., red.

[Ultrasonics and its use in the food industry] Ultrazvuk i
ego primenenie v pishchevoi promyshlennosti. Izd.2., dop.
i perer. Moskva, Pishchevaia promyshlennost', 1964. 195 p.

(MIRA 18:3)

39969-65	evil(h)/evip(k)/evi	A(c)/TMT(d)/TMT(m)/SHT(5)/EHA(d)/EHF(t)/SHF	Pf-4/
	NR: ATS006713	s/0000/64/000/000/0202/0204	36 § 5
AUTHOR:	Konovalov, Ye. C.	(Doctor of technical sciences, Professor); . K.	8+1
	Oltrasonic removal	of strasses in parts after plastic detormat	
metallov	AN ESSR. Piziko-t davleniyem (Plasti tekhnika, 1954, 202	ekhnicheskiy institut. Plastichnost' i ob: city and metal working by pressure). Minst -204	rabotka k, Izd-vo
TOPIC TA	GS: plastic deform	ation, ultrasonic treatment, reeling, stre	ss elimina-
tion			
to us was	atter reeling cylinaties removing the sylinder skirt again the world the more than the control of the sylinder since the world the sylinder sylinde	this article was to find a method for removinders so that the dimension of the evilinder enveloping ring, which is the protoct ast distortion during the line. The litrase k-hardened surface of the evilinder opening unstable and ultrasonic vibrations always pathermodynamically unstable state to a more ses. Twenty-two cylinders were recled with	the opening onto method after reel- promote the atable one
ard 1/2			were to

L 39969-65

ACCESSION MR: AT5006713

then the rings were removed from 11 of these cylinders and the diameter with measured again. The other 11 cylinders were removed from the cylinder satisfied radiation with a sin, after which the rings were removed from the cylinder satisfied diameter measured. After reeling, the size of the cylinders at the place shirt with the enveloping rings had average deviations from the nominal size of 0.044-0.061 mm. The size changed (on the average by up to 0.078 mm) size of 0.044-0.061 mm. The size changed (on the average by up to 0.078 mm) after removal of the ring. In the cylinders which were exposed to ultrasound after removal of the ring. In the cylinders which were exposed to ultrasound and whose rings were then removed, the size decreased 0.024 mm. The authors conclude that ultrasonic vibrations eliminate internal stresses after reeling. Orig. art. has: 1 table.

ASSOCIATION: None

SUEMITTED: 16May64

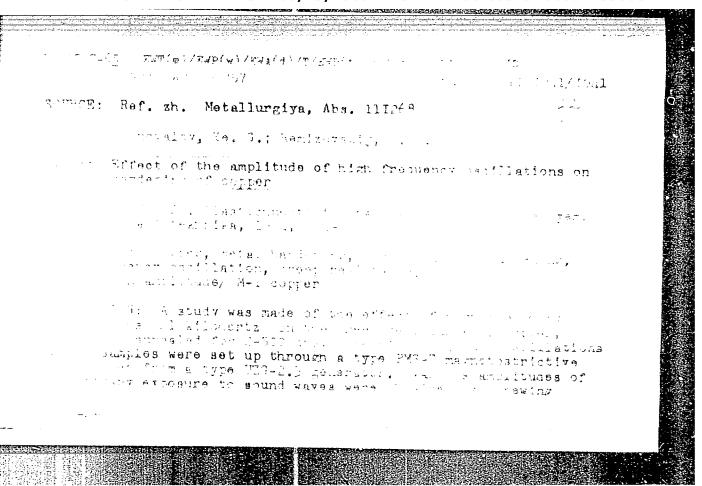
ENCL: 00

SUB CODE: MM

HO REF BOV: 002

OTHER: 001

Card 2/2/13



	₹5005857	<u>.</u>
ે કે પ્યક્તિસ્વત	soncentrators into the magnetogical	otor. The period
	THE WATER WAS TO SEE THE STATE OF THE SECOND	
transfer to the second	un that proliminary is to it a con- ariana porper santasa.	
•	istance joing spaces and a second	:
of the oscillation when	e of 0.012 mm, the creer resistance of and 10.00 ons, the preep resistance of copper recorres occurs is not disable of	cover the portion
of the oscillation when		r over the portion the transformal to the community of the amplitude of
of the oscillation when	ons, the freep resistance of copper re-name of copper re-name of copper re-name of the compensation of the copper re-name of the cop	r over the portion the transformal to the community of the amplitude of