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S/020/61/138/005/010/025 B104/B205

Boguslavskiy, I. A., Vitman, F. F., and Pukh, V. P. AUTHORS:

TITLE: Increase of the strength of thin glass

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 138, no. 5, 1961, 1059-1061

TEXT: Two methods have recently been proposed for improving the strength of glass: hardening and chemical etching. Hardening and subsequent etching have also been studied in detail. However, these methods are only suitable for glass having a thickness of more than 5 mm. The strength of glass 1.5-3.0 mm thick is not considerably improved by hardening in air. Etching of such glass, however, raises their average strength to 50-60 kg/cm². These values are only slightly lower than those obtained for thick glass. The authors present the results of experiments made with plass specimens having dimensions of 80°80 mm and a thickness of 1.5, 3.0, and 5.0 mm. The specimens had non-processed and mechanically polished surfaces, and were treated a) thermochemically, b) by etching with hydrofluoric acid solution, and c) by applying both methods successively. In the first method, the specimens were placed perpendicularly in a tem-

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Increase of the strength of .2500

S/020/61/138/005/010/025 B104/B205

pering furnace and heated to a temperature slightly above that at which the glass softens. After 2-3 min the specimens were cooled in silicone oil and air. In the second method, a layer of 0.1 mm was removed from the surface of the specimens by etching in 20% hydrofluoric acid. The third method combines the first two procedures. The results of the tests are shown in rigs, 1 and 2. The combined method (thermochemical treatment followed by etching) is shown to furnish the best results. It ensures a strength of 70-80 kg/cm². Optimum results were obtained for 1.5-mm glass whose surface had not been processed and which had a relatively high initial strength. The factors increasing the strength of glass are still unknown. It is believed that strength-reducing flaws in the surface layer are eliminated by etching or by thermochemical treatment. The rapid cooling in a liquid organo-silicon medium is likely to change the distribution of hardening strains across the thickness of the glass specimen which, in turn, gives rise to strong compressing forces in the surface layer. On the other hand, it is also necessary to take into account the effect of the hydrophobic layer which is formed on the surface of the glass specimen while being cooled in silicone oil, as well as the interaction of the strongly heated glass with the organo-silicon compounds. By

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using liquid possible to thickness	the strength of 25310 Is that allowed the glass to reach a bending strength of The bending strength could in hickness of the glass. The Fiziko-tekhnicheskiy insti SSSR (Institute of Physics of the Academy of Sciences spetsial'noye proyektno-ko (State Special Planning an February 13 406	be raised up to 150 kg re are 2 figures and 6 tutim. A. F. Ioffe Ak and Technology imeni USSR). Gooday	ly, it was lass of 5 mm g/mm ² by re- b Soviet-bloc ademii nauk A. F. Ioffe
CUDIC	February 13, 1961, by B. P. January 24, 1961	. Konstantinov, Academ	lician (/ 120)
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Card 3/5		• •	

BOGUSLAVSKIY, I.A.; VITMAN, F.F.; PUKH, V.R.

Raising the strength of thin glass. Dokl AN SSSR 138 no.5:1062-1065 Je '61. (MIRA 14:6)

1. Fiziko-tekhnicheskiy institut im. A.F. Ioffe AN SSSR i Gosudarstvennoye spetsial noye proyektno-konstruktorskoye byuro po steklu. Predstavleno akadesikom B.P.Konstantinovym. (Glass manufacture) (Strength of materials)

APPROVED FOR RELEASE: 06/09/2000

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39974 8/181/62/004/008/018/041 B125/B102

AUTHORS: Vitman, F. F., Boguslavskiy, I. A., and Pukh, V. P.

TITLE: Glass hardening

PERIODICAL: Fizika tverdogo tela, v. 4, no. 8, 1962, 2160-2168

TEXT: Glassès were tested after being hardened in the following ways: (1) by quenching in polysiloxane liquids and in mineral oils; (2) by etching in hydrofluoric solutions, and (3) by quenching with subsequent etching. In each case the specimens were of vertically drawn glass, measuring 80 mm square and of 1.5, 3.0, and 5.0 mm thickness, with both natural and mechanically polished surfaces. The strength of the glass plates 1.5 to 3.0 mm thick was found to be only slightly increased by quenching in air blasts. The strength of those 5 to 6 mm thick can be increased, by quenching in organosilicon oils or in mineral oils, from $10-20 \text{ kg/mm}^2$ up to $30-80 \text{ kg/mm}^2$. By subsequent etching in hydrofluoric solutions it can be to 60 to 125 kg/mm^2 . By this method of hardening the angrecedented level of 50 kg/mm^2 . Glass hardening by quenching in air

Card 1/2

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Glass hardening S/181/62/004/008/018/041 Blasts and liquids is due to compressive stresses generated in the surface and largely to physical changes produced in the surface

and largely to physical changes produced in the surface layer of the glass. The contribution of these physical changes to hardening is the greater the more rapidly the gas is cooled. This two-stage hardening process is well suited for the commercial production of large glasses and for various engineering purposes. There are 3 figures and 1 table.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad (Physicotechnical Institute imeni A. F. Ioffc, AS USSR, Leningrad)

SUBMITTED: March 22, 1962

Card 2/2

APPROVED FOR RELEASE: 06/09/2000

s/020/62/145/001/012/018 B104/B102

AUTHORS: Vitman, F. F., Boguslavskiy, I. A., and Pukh, V. P.

TITLE: Glass hardening

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 145, no. 1, 1962, 85-88

TEXT: Glass hardness of up to 100 kg/mm² can be achieved by quenching the glass in liquids or air and then etching it. The authors discuss papers from the years 1933 through 1961 which deal with glass hardening methods. They conclude that in glass hardening great significance attaches not only to the hardening stresses but also to the structural state of the glass surface. There is 1 table.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute imeni A. F. Ioffe of the Academy of Sciences USSR). Gosudarstvennoye spetsial'noye proyektno-konstruktorskoye byuro po steklu VSNKh RSFSR (State Special Planning and Designing Bureau of Glass VSNKh RSFSR)

Card 1/2

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CIA-RDP86-00513R000206010015-6



BOGUSLAVSKIY, I. A.

Dissertation defended for the degree of Candidate of Technical Sciences at the Technical Physics Institute imeni A. F. Ioffe in 1962:

*Several Investigations on the Problem of Producing High-Strength Glass."

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145

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ACCESSION	NR: AP4	043404	S/	/0072/64/000/	008/0006/0009)
AUTHOR: (Engineer)	Boguslavski); Pukhlik,	y, I.A. (Candidate 0. I. (Engineer)	of technical scie	ences); Khali	zeva, O. N.	
TITLE:		lon of strength and	heat resistance	of reinforce	d glasses	
SOURCE :	Steklo i ke	eramika, no. 8, 196	4, 6-9	•		
	S: reinfor ysical metho	cced glass, viscous	tempering, etch	ing, heat rea	istant glass;	,
between t were of a	he strength thickness f	aper are given the of glasses and the from 3 to 25 mm. T mpering and a therm	ir thickness. The tested glasses	he glasses us s were reinfo	ed for testin prced by two	ng .
etching). ure takin and suppo	The streng g into consi ort, magnitud	gth of the glasses ideration necessary de of sagging and t	was evaluated by requirements to the dimensions of	the method of ward the Pole the tested g	of central flo sson diameter glass plate.	ex-
tuting de standard	fective glas content. In	ental data the auth sses of a heat rest n conclusion, the a perature of reinfor	lstant content wi Authors claim tha	th reinforced t it is possi	i glasses of a Lble to incre	a ' i
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	relaxation begins at a highe deficient components. In ma glasses. Orig. art. has: 2	ny cases such	glasses will	not contain ex be competitive	pensive and with quartz	
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ACCESSION NR: AP4041407	s/0020/64/156/006/1424/1427	
AUTHOR: Boguslavskiy, I. A.; Pukhlik, C		· · ·
TITLE: Development and investigation	of ultrahigh-strength glasses	
SOURCE: AN SSSR. Doklady*, v. 156, no		
TOPIC TAGS: silicate glass, heat resi ment, glass quench tempering, glass le ultrahigh strength glass	stant glass, glass heat treat- aching, glass surface hardening,	
ABSTRACT: A new thermophysical method calcium-sodium silicate glass has been heat-resistant glasses[composition uns strength glasses with a low coefficien method is a combination of quench-temp medium with subsequent leaching with h strength and surface hardening greater were achieved in silicate glasses of va- selecting an appropriate quenching media	applied to several commercial pecified] to obtain ultrahigh- t of thermal expansion. The ering in a liquid [unspecified] ydrofluoric acid. Bending than that found in common glass	raman - man shir bit been in shir di lan bir 'na an shirin barangi a lan .
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com quench-tempering of glass. The dependence of the increase in com- cessive strass and surface hardening on the degree of cohesion of the licon-oxygen skeleton is shown. A further study is expected to es- ablish the heat-treatment conditions necessary for obtaining maximum and 1 table. SOCIATION: none BMITTED: 28Feb64 BMITTED: 28Feb64 BCODE: MT NO REF SOV: 013 OTHER: 000					hannen fe annen	ć.	· · · · · · · · · · · · · · · · · · ·
xperimental data showed that structural, and to a lesser degree, me- nanical factors contribute to the overall surface hardening resulting com quench-tempering of glass. The dependence of the increase in com- cessive stress and surface hardening on the degree of cohesion of the licon-oxygen skeleton is shown. A further study is expected to es- ablish the heat-treatment conditions necessary for obtaining maximum and 1 table. SOCIATION: none BMITTED: 28Feb64 B CODE: MT NO REF SOV: 013 OTHER: 000	CCESSTON -			· ·· ··		····	and and a second se
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rom quench-tempering of glass. The dependence of the increase in com- ressive stress and surface hardening on the degree of cohesion of the ilicon-oxygen skeleton is shown. A further study is expected to es- ablish the heat-treatment conditions necessary for obtaining maximum and 1 table. SSOCIATION: none JBMITTED: 28Feb64 JB CODE: MT NO REF SOV: 013 OTHER: 000	xperiment	al data sl	howed th	at stru	Ctural and we		
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<pre>ilicon-oxygen skeleton is shown. A further study is expected to es- ablish the heat-treatment conditions necessary for obtaining maximum nd 1 table. SSOCIATION: none UBMITTED: 28Feb64 / ENCL: 00 JB CODE: MT NO REF SOV: 013 OTHER: 000</pre>	rom quenci rossive e	n-temperin	ng of gl	ass. T	he dependence	of the incre	asa in comm
ablish the heat-treatment conditions necessary for obtaining maximum nd 1 table. SSOCIATION: none JBMITTED: 28Feb64 JB CODE: MT NO REF SOV: 013 OTHER: 000	ilicon-oxy	veen ekala			rug on the de	gree of cohes	ion of the
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ACCESSION NR: AP4042020	S/0020/64/157/001/0087/0090	
AUTHORS: Boguslavskiy, I.	A.; Vitman, F. F.; Pukhlik, O. N.	
TTLE: Increase of quench trengthening	ing stresses in glass for additional	* 1 1
OURCE: AN SSSR. Doklady*	, v. 157, no. 1, 1964, 87-90	
OPIC TAGS: glass process: trengthening, prestraining	ing, glass annealing, heat treatment,	
ng rates, in order to comp n the range of Biot number	ement was made of residual stresses in of thickness, quenched at different cool- pare the resultant data with the theory is hitherto uninvestigated (Bi $>$ 5). This	
hat quenching stresses car	neck on the hitherto prevalent opinion not contribute much to further strengthen- 160 mm square and 525 mm thick were	
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BOGUSLAVSKIY, I.A., inzh.; PUKHLIK, O.I., inzh.

Study of strengthening strains in hardened glass made of heat-resistant compositions. Stek. 1 ker. 20 no.91=5 5'63. (MIRA 1786)

L_12008-65 EWI(m)/EWP(e)/EWP(b)	- *q-4 - *5 D(gs) fil
ACCESSION NR: AP4047002	\$/0072 /64/000/010/0004/0009
AUTHOR: Boguslavskiy, I. A. (Car	ididate of technical sciences)
TITLE: Nature of ultra-high stre thermophysical method	angth in glasses hardened by the
SOURCE: Steklo i koremika, no. 3	10, 1964, 4-9
TOPIC TAGS: silicate glass, com ultra-high strength glass, glass b	iest treatment, gloss surface hard-
ening, glass strengthening mechan	lism
AFSTRACT: Results of previous in the contribution of mechanical ar	ivestigations have been reviewed, and id structural factors to the thermor
physical hardening of glasses of	Various thickness and composition has
been studied and discussed. The F_1 , F_2 Vituan for the purpose of e	ostablishing a scientific case for a
lurthed increase in the strength developed thermophysical method.	of various glasses outre the retards. Compressive successive successive
measurements by the N. N. Davider Dmicriyeva, V. P. Pukh. Fizika t	ikov method (F. F. C. tar 1. C.
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quenched heat-resis the relaxation natu	mechanism of glass-surface har to characteristics of the starti- tant glasses with different Si- re of glass hardening due to the figures and 2 tables	Ag and rapidly
erië: elc, D88;)	figures and 2 tables.	
ASSOCIATION: none		
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SUB CODE: MT		. *
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BOGUSLAVSKIY, I.A.; PUKHLIK, O.I.

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Devising the methods of research on superstrorg glasses. Dokl. AN SSSR 156 no.6:1424-1427 Je '64. (MIRA 17:8)

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1. Predstavleno akademikom N.N. Semenovym.

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BOGUSLAVSKIY, I.A.; VITMAN, F.F.; PUKHLIK, O.I. No. of Strate

> Intensifying the quenching stresses in glass for the purpose of further hardening. Dokl. AN SSSR 157 no.1:87-90 J1 *64 (MIRA 17:8)

1. Predstavleno akademikom N.N. Semenovym.

BOGUSLAVSKIY, I.A., kand.tekhn.nauk

Investigating the nature of extra-strong glass hardened by thermophysical methods. Stek. i ker. 21 no.10:4-9 0 '64. (MIRA 18:11)

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ACC NR: AP5025714 SOUNCE CODE: UR/0286/65/000/01	0/00/0/00/0 9' //
AUTHORS: Boguslavskiy, I. A.; Vitman, F. F.; Pukh, V. P. 44	2 C C
ORG: none	\mathbf{Q}
δ. β . β	15
TITLE: A method for strengthening glass and glass products. Class 32,	No. 174776
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 70	
TOPIC TAGS: glass, glass product	
ABSTRACT: This Author Certificate presents a method for strengthening	glass and
glass products by quenching them from the temperatures near the tempera	ture of
softening with the help of cooling substances. To prevent strength-low structural and physical alterations in glass during its hardening, glas	ering
quenched with substances of the greatest cooling capacity exactly in th	
anomalous range of glass hardening temperatures.	
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AUTHOR: Boguslavskiy, I. A.	66 B
ORG: none	
TITLE: Statistically optimal pulse corrections in space fligh	t
SOURCE: Kibernetika, no. 1, 1966, 52-64	
TOPIC TAGS: optimal control theory, stochastic process, space	ecraft control
ABSTRACT: Methods are studied for the selection of statistical correcting the speed of space vehicles. The sampling method for (the optimal strategy) is defined as a chain of N^{11} successive which take into account the statistical characteristics of ran accuracy after the last pulse given by the expression	statistical decisions
$Prob \ \{d_0^+ \in \Omega\} > P_0,$	
where P_0 is a given number near 1, and to minimize the quanti relation	ty $V_N(\alpha)$ defined by the
$\Pr{ob} (W_N \leq V_N(a)) = a,$	
UDC: 519.8	:629.19
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findin	a is ng met	thods for o t only the	hoosing opt: choice of th	imal pulses :	s made of the in order to m e is responsi gure.	inimize	N(a) under	the con-
SUB C	ODE :	22,13,12/	SUBM DATE:	01Mar65/	ORIG REF:	001/	OTH REF:	002
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1.17.79 52.4 EWT(d)/FBD/FSS-2/EWT(1)/EWP(m)/EEC(k)-2/EWA(d) IJP(c) AST/JKT/GW/BC 22988-66 SOURCE CODE: UR/0293/66/004/002/0203/0207 ACC NR. AP6012826 Boguslavskiy, I. A.; Ivashchenko, O. I.; Shepelev, Yu. G. 104 AUTHOR: 8 ORG: none TITLE: On control of a space ship with low-thrust engines in acceleration with no information on the current velocity vector SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 2, 1966, 203-207 TOPIC TAGS: astronautics, celestial mechanics, artificial satellite orbit, orbit control, orbit program, satellite control, thrust vector control 12 ABSTRACT: A possible method of control of a space ship with low-thrust engines in the acceleration phase is described when no information on the velocity vector is available. This method consists in the realization of 1) a system which can determine the real angles of thrust-vector orientation with respect to a planeto-. centric coordinate system, and 2) a vertical reference which provides the orientation of the planetocentric radius-vector of the space ship in the same coordinate system at any time. Thus, it is possible to stabilize the plane of an osculating for example, to a planetocentric coordinate system in a orbit with respect. position given by the latitude of the ascending node fr and the inclination of the orbit it in the sense that it diminishes the discrepancy between the real Ω and i UDC 629.191 Card 1/3

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shown that the selected control law makes it possible to stabilize the orbit in space with $\Omega \tau$ and it constant. Moreover, when the planetary gravity field differs from the central field, At and it should be certain functions of time in order to make more effective use of energy. Indeed, the expenditure of energy would be used effectively if the total thrust is used for augmentation of the radius vector of the space ship, which is realized when the thrust vector is situated in the plane of an osculating orbit. An expression for the time dependence of Ar is derived, assuming that it \equiv ; constant. Thus, if the function $\Omega\tau$ (t) is given with sufficient accuracy by the programmer of the control system and Ar and it are sufficiently close to values of Ω and i at the start of acceleration, the orientation of the thrust vector during acceleration will practically coincide with transverse orientation and the energy expenditures of the space ship in escaping from the earth's influence will practically coincide in both three-dimensional and plane cases. The possibility and difficulty of realizing purely programmed control are disscussed. Orig. art. has: 1 figure and 14 formulas. [AB] SUB CODE: 22/ SUBM DATE: 23Apr64/ ORIG REF: 003/ ATD PRESS: 4238

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L 06550-67 EEC(k)-2/EWP(k)/EWP(h)/EWT(d)/EWP(1)/FSS-2/EWP(v) IJP(c)	<u> </u>
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AUTHOR: Boguslavskiy, I. A. (Moscow)	
ORG: none 13	
TITLE: Statistically optimal control of the finite state	
SOURCE: Avtomatika i telemekhanika, no. 5, 1966, 15-27	
TOPIC TAGS: optimal control, missile control, rocket guidance	
ABSTRACT: A generalized dynamic system with a given discrete inflow of information is considered. The information is measured with errors for the given linear object of the <i>n</i> -th order; there are also certain control restrictions. Generalized recurrence formulas are developed and used to plot an optimum expectation vector such that mini- mizes the <i>a posteriori</i> mathematical expectation of some function of $\mu \leq n$ finite phase coordinates of the object. In most problems considered $\mu = 1$. For a continuous influ- of information, an appropriate Bellman equation was developed. For one-dimensional control ($\mu = 1$) and asymmetry restriction, an explicit solution has been obtained. R currence formulas have also been developed for cases when the synthesis of optimum co- trol must be performed with a consideration of the actually available value of the functional of "energy consumption" by the control systems. Some of the specific prob- lems considered include the synthesis of optimum rocket engine control, calculation as MC: 62-505.5	e ow n

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SOV/136-58-6-8/21 Feygin, V.I. and Zhiryakov, N.I., Boguslavskiy, I.M. AUTHORS: Automation of Rolling Mills in Non-ferrous Metallurgy 'TITLE: (Avtomatizatsiya prokatnykh stanov v tsvetnoy metallurgii) Tsvetnyye Metally, 1958, Nr 6, pp 42 - 52 (USSR) PERIODICAL: ABSTRACT: This article deals mainly with work done by the KB Tsvetmetavtomatika on the automation of the three-high, hot-rolling mill at the imeni S. Ordzhonikidze Works and of the reversing cold strip mill at the Kirovskiy zavod (Kirov Works). The work on the first was carried out with the participation of B.S. Fradkin, V.S. Morozcv and A.A. Vasil'yeva. This mill rolls mainly billets of type I-62 (115 x 800 x 600 mm) and I-90 (100 x 800 x 350 mm) brass into coiled strip (4.0 - 6.0 mm thick) or sheet (15 mm thick), generally in nine passes. The first stage of automation embraces all the operations, previously carried out by the operator, all the roller tables, the tilting lifts, the middle-roll moving mechanism and the screw-down to a programme, synchronization of the roller speeds with that of the rolled strip to avoid surface damage. The openator now merely selects the appropriate programme and looks after the mechanisms; the arrangement (Figure 3) Card1/4

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> does provide for immediate manual take-over. The authors describe the system in detail and state that experience has shown that the automation had led to some process advantages and a 2% increase in rolling rate; the power of the motor preventing further improvements; almost all occasions of manual take-over were due to outside factors; the scatter in the thickness of the product was 35% less than with manual control. The automation of cold-rolling mills was started at the end of 1956. With the partici-pation of B.M. Avdeyev and S.I. Alimov, the 250 four-high mill for cold-rolling brass from 1 to 0.4 mm at rolling speeds up to 3.5 m/sec has been automated, some original (Ref 4) proposals as well as some made by the TsKB "Elektroprivod" (Ref 5) and TSHIITMash (Ref 6) being used. For the continuous measurement of metal pressure on the rolls, a strip strain gauge (Figure 4) is used, provision being made for calibration directly in the mill, according to a proposal by Ye.S. Rokotyan and I.M. Meyerovich of TsKBMM of TsNIITMash. When the pointer on the indicating instrument reaches the maximal desired value of the pressure, it operates a photo-relay to produce the appropriate change

Card2/4

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> at the stand. For the continuous thickness control of the strip, the system adopted (Figure 5) is based on two radioactive isotope devices, one before and the other after the mill. An integrating device (Figure 6) is included in the system to ensure that only sufficiently important changes in thickness operate the control system. For stopping the rolls just before the end of the strip reaches them, a system (Figure 7) based on counters of the number of turns of strip on the coilers is used; for thicker strip (0.7 mm and over) the metal is allowed to leave the collers but not the rolls, the control being effected with the aid of a small, type FR-236 photo-relay (Figure 8). In 1957, the KB TsMA studied the indirect measurement of roll temperature from that of a small volume of air in contact with the rolls. Model tests have shown an error of ± 3 C for an ambient temperature of 20 ± 5 C.

Card 3/4

SOV/136-58-6-8/21 Automation of Rolling Mills in Non-ferrous Metallurgy There are 8 figures and 6 Soviet references.

ASSOCIATION: KB Tsvetmetavtomatika

Card 4/4

(BOGULAVSKIY, I.M.; ZHIRYAKOV, N.I.; FEYGIN, V.I.

Automation of a reversing mill for cold rolling of nonferrous metals. Sbor.mat.po avtom.proizv.prots.i disp. no.5:72-93 '60. (MIRA 14:4)

1. Konstruktorskoye byuro "TSvetmetavtomatika." (Rolling mills) (Automation)

BOGUSLAVEKIY, I.M.; BROYDO, B.S.; KHUCHER, G.N.; TARSHINOV, V.I.

Complete investigation of a three-high continuous mill for the cold rolling of copper alloy strip. TSvet. met 33 no. 12:66-74 D '60. (MIRA 13:12) (Rolling mills--Testing) (Copper alloys)
CIA-RDP86-00513R000206010015-6

s/118/61/000/005/004/006 D203/D306 Boguslavskiy, I.M. and Petrova, I.V, Engineers AUTHORS: A system for continuously measuring the tension of a TITLE: band undergoing rolling Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 5, PERIODICAL: 1961, 34-35 TEXT: The Konstruktorskoye byuro (Design Office) of "Tsvetmetavtomatika" together with the Research Section of the Kirovskiy zavod (Kirov Plant) for machining non-ferrous metals have designed diaphragm gauges for measuring the tension of a band undergoing rolling. The tension of the band and the pressure on the supporting roller are connected by the relationship $T = \frac{P}{\sin\beta_1 + \sin\beta_2}$, where T = bandtension P = pressure of the band on the measuring roller, β_1 , β_2 = angles of the band with the horizontal. The gauge is fitted under both Card 1/2

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A system for continuously...

bearings of the supporting roller so that the tension on the roller is the sum of two pressures and is independent of the band motion along the roller. The construction of the gauge is illustrated as well as the circuit diagram of the system. Electrical pressures from the bridges are added and transmitted to the pointer of the $\gamma \eta$ (UP) apparatus of the $M[\Pi \subseteq \Pi \rho]$ (MPShChPr) type calibrated in tons. For automatic control a high resistance amplifier should be connected in parallel to the indicating instrument. Practical experience with this apparatus in the Kirov Plant gives grounds for recommending it in controlling a band undergoing rolling. There are 3 figures.

Card 2/2

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AUTHORS: Boguslavskiy, I. M., Vol'fkovich, S. I., Kazakova, S. B., Bogdanova, N. S.

TITLE: Production of hydrogen fluoride from silicon tetrafluoride

PERIODICAL: Khimicheskaya promyshlennost', no. 7, 1961, 6 - 8

TEXT: During the production of superphosphate fertilizers by decomposition of apatite and phosphorites with sulfuric acid, about 45% of the fluorine present in the ore escapes in the form of SiF_4 , together with the waste

gases. HF can be produced from SiF_A by the process studied and proposed in this paper, without great capital investment for the raw material production. Production cost of HF is also greatly reduced dueto complete utilization of SiF_A for the production of HF and high-quality SiO₂. The process

consists of two main stages: production of solid ammonium fluoride and -bifluoride from SiF_4 -containing gases and decomposition of ammonium

fluoride and -bifluoride by means of sulfuric acid, by which HF and $(NH_4)_2$ SO₄ are obtained. The main reactions of the first stage are: Card 1/6

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Production of hydrogen...

intermediate product in the production of HF. The second stage of the process can be characterized by the reactions: $NH_4F \cdot HF + H_2SO_4 = NH_4HSO_4$ + 2HF (4); $NH_4F + H_2SO_4 = NH_4HSO_4 + HF$ (5) and $NH_4HSO_4 + NH_3 = (NH_4)_2SO_4$ (6). 93-95% sulfuric acid is used for the decomposition of the salt mixture consisting of 80% ammonium bifluoride and 20% ammonium fluoride; decomposition is carried out at 180-190°C. Table 2 shows the experimental results for the decomposition of NHAF with sulfuric acid in a steel-boat, which was placed in an electric tubular furnace with a constant stream of dry air; the experiments were conducted with temperatures maintained constant to within ± 3°. The heating time varied from 5 to 30 min. The HF evolved was absorbed by water in vessels made from organic glass, the melt was weighed, analyzed for residual fluorine, and the fluorine yield was calculated. With 30 min reaction time and 180-190°C, the fluorine yield amounts to 97-98%. The ammonium bisulfate melt obtained contains about 40% free sulfuric acid. Neutralization of the latter with the calculated amount of ammonia converts the ammonium bisulfate into ammonium sulfate. Fig. 4 shows the decomposition curve of ammonium fluoride and -bifluoride with sulfuric acid as a function of its concentration, calculated for ammonium bisulfate (decomposition time 40 min at 195°C). On the basis of Card 3/6

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25049 S/064/61/000/007/001/005 B124/B206

Production of hydrogen...

laboratory results, the pilot plant of the NIUIF under the direction of V. D. Podkopayev, designed a pilot installation for the production of HF by decomposition of ammonium fluoride and -bifluoride with sulfuric acid, which yielded good results. In order to select the most corrosion-resistant material for the thickener and reactor, the steel types investigated were immersed in anaqueous solution with 26% NH_AF and 19% NH_AF·HF; the

specimens were in a vessel made from ATM-1 (ATM-1) graphite, with an external heating coil. The solution was periodically heated for 7 hr daily, the specimens being held for 120 hr at 80°C and 880 hr at room temperature. Steel of the type X23W28M3A3T (Kh23N28M3D3T) was most corrosion-resistant. Moreover, the most resistant material was ascertained in a molten mixture of H_2SO_4 , NH_4F , and NH_4F •HF at 190-200°C, the specimen being fixed to the

bottom of the vessel by a Teflon strip and the melt being mixed by a mechanical mixer. The test lasted 92 hr with a continuous feed of the mixture, and showed that steels of the type $\chi_{23}\mu_{23}\mu_{3}\Lambda_{3}$ (Kh23N23M3D3) and OX23H28N3A3T (OKh23N28M3D3T) are the most resistant. Data obtained for CT-O (St-O) steel (loss in weight 43.0 g/m² hr) need a checkup under working conditions. There are 4 figures and 2 tables.

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APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206010015-6

BOGUSLAVSKIY, I.M., inab.; PETROVA, I.V. Equipment for continuous measurement of the tension of a strip during rolling. Mekh. i avtom. proizv. 15 no. 5:34-35 My '61. (MIRA 14:5) (Rolling (Metalwork)) (Electric measurements)

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L 12492-63	BDS S/118/63/000/004/002/003				
AUTHOR:	Boguslavskiy, I. M.; Broydo, B. S. Automatic tension control between stands of a cold-rolling mill				
TITLE:					
PERIODICAL:	Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 4, 1963, 42-43				
"Stanu tvoa ".	ce for connection between the first and second stands of the three-				
pickup mount diagrams are varies from variation in the mill open	1000" rolling mill. Tension is measured with the aid of a three roller ed in the space between the stands. The mechanical and electrical given. With the tension device disconnected, the average tension 4.6 to 8 tons (circa 42%), whereas with the device in operation, the tension under identical conditions is reduced to 15%. This relieves rator of the need for checking and regulating the tension. The device ad for use in other continuous cold-rolling mills. The orticle has				
pickup mount diagrams are varies from variation in the mill open is recommended	ed in the space between the stands. The mechanical and electrical given. With the tension device disconnected, the average tension 4.6 to 8 tons (circa 42%), whereas with the device in operation, the tension under identical conditions is reduced to 15%. This relieves				



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•••(<u>)</u>	<u>A. I. I. B. I. J. A.</u>				~
	C	Propagation of notice multiste melt and its use in glass- mething. 1. M., BODURANTEL, V. V. POLYAK, G. M. NYHERVICH, AND B. YA. RAN. Abstracted in Michael mays i Kergen. Trees., 1965, No. 4-6, p. 20.—It was proposed to use in glassemething a modified Leblanc melt computing a mixture of mode and sulfate which was obtained by the in- complete reduction of the sulfate to the sulface and the curbonization of the latter by the decomposition of the added CaCO. In contrast to the Leblanc melt, the modi- field was to have NagO and CaO in the proportions in which they are used in sormal Fourcast charges, and the ratio of socia to sulfate which Was obtained by Tr. CaO 12, and NagO 18%, in which NagO/CaO = 1.20. The glass melt obtained did mu differ in coloration from that ob- tained from a sulfare charge. The absolute content of the sulfade sufficient and does not by itself cause the citiza- tion. The glass here there undercomposed sulfates is shifted to give an excess of sulfades not only the sul- fate. The coefficient of sulfates which have been the relation which harge limits and does not by itself cause the colora- tion. The glass hereumes colored only when the relation between the sulfades and the free undecomposed sulfates is shifted to give an excess of sulfades not oxidized by the sul- fate. The coefficient of reduction of the sulfate should not exceed about 80 to 80%. A homogeneous and uncolored glass is formed from charges containing this merid to increasing sola charges. The transmissivity is lowered by increasing sola charges. The transmissivity is lowered by increasing			
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BOGUSLEVEETY, I.M.; VOL'FROVICH, S.I.; BOCDACOVA, N.S. Production of hydrogen fluoride from silicon tetrafluoride. 15.in. prom. no.7:450-452 J1 '61. (MIRA 14:7) • 1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i insektofungitsidov. (Hydrofluoric acid) (Silicon fluoride)

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206010015-6

BOGUSLAVSKIY, IM. ALIMOV, I.S., inzhener; BQQUSLAVSKIY, I.M., inzhener; ZHIRYAKOV, N.I., inzhener; FEYGIN, V.I., inshener. Equipment for preventing overheating. Priborostroenie no.7:28-30 JI 157. (MIRA 10:9) (Thermostat)

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206010015-6

BOGUSLAVSKIY, I.P. (s.Mirafs Khar'kovs!oy obl.) Kharkov Province "Pedagogical lectures." Mat. v shkole no. 4:90 J1-Ag '58. (MIRA 11:7) (Kharkov Province--Mathematics)

CIA-RDP86-00513R000206010015-6

BOGUSLAVSKIY, I.Ya., starshiy nauchnyy sotrudnik,; BOCHAROV, Yu. G., mladshiy nauchnyy sotrudnik,; YENTOV, O.I., mladshiy nauchnyy sotrudnik,; ZHIVAGO, V.I., mladshiy nauchnyy sotrudnik,; KHITSUN, V.N., inzh.; BUBLIK, V.I., inzh.; LEVCHENKO, D.V., otv. red.; AVRUTSKAYA, R.F., red. izd-va,; MIKHAYLOVA, V.V., tekhn. red.; EVENSON, I.M., tekhn. red.

> [Consolidated time norms for machining standard parts; unit and small-scale production] Ukraphennye normy vremeni na tokarnuiu obrabotku^f tipovykh detalei; individual'noe i melkoseriinoe proizvodstvo. Moskva, Gos. nauchno-tekhn. izd-ve lit-ry po chernoi tsvetnoi metallurgii, 1958. 445 p. (MIRA 11:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii proizvodstva i truda chernoy metallurgii. (Turning--Production standards) (Time study)

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BOGUSLAVSKIY, Isaak Jakovlevich; BOCHAROV, Yuriy Grigor'yevich; LEVCHEHKO, Acoustic Color Dmitriy Vasil'yevich; PORTNOY, Moisey Yevseyevich; MERKOV, S.M., red.; AVRUTSKAYA, R.F., red.izd-va; ISLENT'YEVA, P.G., tekhn.red.

> [Establishing norms and the work organization for the repair of metallurgical furnaces] Tekhnicheskoe normirovanie i organizatsiia truda na remontakh metallurgicheskikh pechei. Moskva, Gos.nauchnotekhn.izd-vo lit-ry po chernoi i tavetnoi metallurgii, 1960. 316 p. (MIRA 13:10)

(Netallurgical furnaces--Maintenance and repair)

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CIA-RDP86-00513R000206010015-6

BOGUSLAVSKIY, I. Ya., starshiy nauchnyy sotrudnik; BOCHAROV, Tu.G., mladshiy nauchuyy sotrudnik; YENFOV, O. I., mladshiy nauchuyy sotrudnik; BUBLIK, V.I., insh.; GOLOVANOVA, I.N., insh.; KHITSUN, V.N., insh.; SEMENENKO V.I., insh; SHMEDRIK, S.S., insh.; LEVCHENKO, D.V., otv.red.; CHETTEKIN, M.I., red.; PINEGIN, I.I., red.izd-va; ISLENT'YEVA, P.G., tekhn.red.

> [Inlarged machining and time norms for planing and slotting; piece and small lot production] Ukrupnennye normy i normativy vremeni na strogal'nye i dolbezhnye raboty; individual'noe i melkoseriinee proisvodstvo. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tavetnoi metallurgii, 1961. 408 p. (MIRA 14:12)

1. Kharkov. Vsesoyusnyy nauchno-issledovatel'skiy institut organizatsii proisvodstva i truda chernoy metallurgii. (Metal cutting)

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BOGUSLAVSKIV, I.Ya., starshiy nanchnyy sotr.; BOCHAROV, Yu.G., mlad. nauchnyy sotr.; YENTOV, O.I., mlad. naychnyy sotr.; BUBLIK, V.I., inzh.; GOLOVANOVA, I.N., inzh.; KHITSUN, V.N., inzh.; SEMENENKO, V.I., inzh.; SHMEDRIK, S.S., inzh.; IEVCHRNKO, D.V., otv. red.; BURSHTEYN, A.I., red. izd-va; ISLENT YEVA, P.G., tekhn. red.

> [Consolidated norms and time norms for boring work; piece and small lot production] Ukrupnennye normy i normativy vremeni na rastochnye raboty; individual'noe i melkoseriinoe proizvodstvo. Moskva, Metallurgizdat, 1962. 407 p. (MIRA 15:3)

1. Kharkov. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii proizvodstva i truda chernoy metallurgii. (Drilling and boring--Production standards)

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 $\{i_{i_1}, \ldots, i_{i_n}\}$ BOGUSLAVSKIY, I.YA.; FRADKOV, Ye.S.

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Organization of the dispatcher service and operational accounting in a machine shap. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. no.12:65-69 '63. (MIRA 17:3)

KHUTORETSKIY, G.M., inzh.; BOGUSLAVSKIY, I.Z., inzh.

Magnetic design of the saturated teeth of a turbogenerator. Vest. elektroprom. 32 no.5:41-43 My '61. (MIRA 15 (Turbogenerators) (MIRA 15:5)

KHUTORETSKIY, Garii Mikhaylovich, assistent; BOGUSLAVSKIY, Il'ya Zelikovich, starshiy inchener

> Additional losses in the hollow conductors of the stator windings Additional losses in the hollow conductors of the unwekh. 5 of a turbogenerator. Izv. vys. uch. zav.; elektromekh. 5 (MIRA 15:8) no.8:923-927 '62.

1. Leningradskiy politekhnicheskiy institut (for Khutoretskiy). 2. Leningradskiy filial Vsesoyuznogo nauchno-issledovatel skogo instituta elektromekhaniki pri savode "Elektrosila" (for Boguslavskiy).

(Turbogenerators--Windings)

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1 20775-55 AFWL/SSD/ASD(a)-5/BSD/AFMD(p)/AFETH/AFTC(b)/RAEM(d)/ERD(dr) ACCESSION NR: AP5003791 \$/0144/64/000/009/1066/1081 AUTHOR: Boguslavskiy, I. Z.; Goncharenko, R. B.; Dombrovskiy, V. V.: Kogar, V. V.; Sivkov, A. P.; Sibel nikov, H. V.; Khutoretskiy, G. M. TITLE: Use of electronic digital computer "Minsk-I" for practical design of electrical machines SOURCE: IVUZ. Elektromekhanika, no. 9, 1964, 1066-1081 TOPIC TAGS: computer calculation, electric equipment digital computer Minsk-1 commuter Abstract: The authors discuss the use of digital computers for the design of specialized machines which are produced in small numbers and which cannot be computed using standardized programs. The most difficult problems are encountered when designing machines utilizing new cooling systems and materials and machines operating at high specific loads. The article contains detailed discussion of five projects solved at the Laboratory for Numerical Calculation Devices of the Leningrad Affiliate of the All-Union Scientific-Research Institute of Electrical Machines during the 1962-1963 period: 1) the calculation of the starting characteristics of synchronous motors with large rotors; 2) the checked calculation of electrical circuitry of hydrogenerators; 3) the exact magnetic calculation of teeth Orig. art. has: 7 figures, 19 formulas. Card1/5

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BOGUSLAVSKIY, L., kand. tekhn. nauk

Heating of an open motor-vehicle parking area. Avt. transp. 41 no.3:31-32 Mr '63. (MIRA 16:4) · .

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(Automobile parking)

BOGUSLAVSKIY, L.A.; VOLOSOV, S.S.

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Increasing the sensitivity of the feed mechanism of a grinding machine by means of vibrations. Stan. i instr. 34 no.6:14-16 (MIRA 16:7) Ja 163.

> (Grinding machines) (Feed mechanisms)

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BOGUSLAVSKIY, L.A.; VOLOSOV, S.S.

Errors in the median method of control and readjustment in centerless grinding of conic rollers. Izm. tekh. no.10: 13-16 0 '63. (MIRA 16 (MIRA 16:12)

VOLOSOV, S.S.; BOGUSLAVSKIY, L.A.

Automatic readjustment device for conic rollers. Izm. tekh. (MIRA 18:3) no.9:8-9 S 164.

VENDROV, I.G.; BOGUSLAVSKIY, L.B.

Greater daring in the introduction of monferrous and ferrous metal substitutes. Metallurg 9 no.7:38-39 Jl '64. (MIRA 17:8)

1. TSentral'naya nauchno-issledovatel'skaya laboratoriya Upravleniya mestnoy promyshlennosti Donetskogo soveta narodnogo khozyaystva.

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KLIMENKO, F.D., Inch.; VENDROV, I.G., inzb.; BOGUSLAVSKIY, L.B., inzb.; LOBACHEV, V.A., Jozh. Means for rulaing () bor productivity in the power engineering departmonts of metallurgical plants. Prom. energ. 20 no.8:9-11 Ag '65. (MIRA 18:8)

KLIMENKO, F.D., inzh.; VENDROV, I.G., inzh.; BOGUSLAVSKIY, L.B., inzh.; LOBACHEV, V.A., inzh.

Means for increasing labor productivity in the power engineering departments of metallurgical plants. Prom. energ. 20 no.9:8-11 S 165. (MIRA 18:9)

1,	BOGUSLAVSKIY, L. D.	
2.	USSR (600)	-
4.	Heating from Central Stations-Moscow	
7.	Measures for rendering the operation of heating systems more economics. Gor. khoz. Mosk. 23 no.8 1949.	
	· · · ·	
9.	Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.	

BOGUSLAVSKIY, L.D.

[Technical operation of heating and ventilating systems] Tekhnicheskaia ekspluatatsiia otopitel'nykh i ventiliatsionnykh sistem. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1951. 126 p. (MLRA 6:8) (Heating) (Ventilation)

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BOOUSLAVSKIY, L. G.

BOCUSLAVSKIY, L. D., Kandidat Tekhn. Nauk. i, LIVCHAK, I. F., Kand. Tekhn. Nauk.

Stroitel'nyy institut Mossoveta Dlitel'nye Eksploatatsionnye Ispytaniya Otopitel'noy

Page 45

Pechi S Vodyanym Teploakkumuliruyushchim Massivom

SO: Collection of Annotations of Scientific Research Work on Construction, completed

in 1950. Moscow, 1951

BOGUSLAUSKITZ.D. BOGUSLAVSKIY, L.D., kandidat tekhnicheskikh nauk. Improving dual-control throttle valves. Trudy Stroi.inst. Mosgor-ispolkoma no.4:61-65 '53. (MIRA 8:3) (Faucets) • •

MIKHAYLOV, S.A.; BOOUSLAVSKIY, L.D., redkator; IOSELEVICH, L.Ye., redaktor; FETROVSKAYA, Yo., tekhnicheskiy redaktor

[Graphic method for calculating elements of water heating systems] Graficheskiy raschet elementov sistem vodianogo otopleniia. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1954. 8 p. (MLRA 8:3) (Hot water heating)

BOGUSLAVSKIY, L.D., redaktor.

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[New developments in municipal engineering; heat supply, ventilation, dust elimination] Kovosti tekhniki kommunal'nogo khoziaistva; teploanabzhenie; ventiliatsiia, obespylivanie. Pod red. L.D.Boguslavskogo. Moskva, N-vo kommun.khosiaistva RSJSR, 1954. 136 p. (MIRA 7:11D)

.

BOGUSIAVSKIT, Leentiy Davidevich; ZHURAVLEV, B.A., redakter; RACHEVSKAYA, M.I., redakter izdatel'stva; FONBERG, P.I., tekhnicheskiy redakter.

[Repair and operation of plumbing equipment in houses and public buildings] Remont i ekspluatatsiia sanitarne-tekhnicheskikh ustreistv zhilykh i ebshchestvennykh zdanii. Moskva, Izd-ve Ministerstva Kemmunal'nege khesiaistva RSFSR, 1956. 235 p. (MLRA 9:6) (Plumbing)

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CIA-RDP86-00513R000206010015-6"

PENTKOVSKIY, N.I., dotsent, kandidat tekhnicheskikh nauk; RAYKHINSHTEYN, S.I., dotsent, kandidat tekhnicheskikh nauk; BOGHSIAVSKIY, L.D., dotsent, kandidat tekhnicheskikh nauk; PASHCHENKO, H.Ye., inzhener, retsenzent; POLYAKOV, D.L., inzhener, redaktor [deceased]; ZHURAVIEV, B.A., inzhener, nauchnyy redaktor; GOLUBENKOVA, L.A., redaktor izdatel'stva; PERSON, M.N., tekhnicheskiy redaktor

[Organisation and planning of construction and assembly work in establishing heat and gas supply and ventilation] Organizatsiia i planirovanie stritel'no-montashnykh rabot po teplo-gazosnabzheniiu i ventiliatsii. Pod red. D.L.Poliakova. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 293 p. (MIRA 9:11)

1. Chlen-korrespondent &kademii arkhitektury SSSR (for Pashchenko) (Heat engineering) (Ventilation)

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"APPROVED FOR RELEASE: 06/09/2000

BELINKIY, Yevgeniy Aleksandrovich; BOGUSLAVSKIY, L.D., redaktor; RACHEVSKAYA, N.I., redaktor izdatel'stva; KONYASHINA, A.D., tekhnicheskiy redaktor [Operation of water systems in central heating] Eksplustatsionnyi rezhim vodianykh sistem tsentral'nogo otopleniia. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1956. 1956. 78 p. (MIRA 10:1) (Heating from central stations) :

BOGUSLAVSKIY, Leontiy Davidovich: TURKUS, V.A., red.; UCHITEL', I.Z., red. 1zd-va; SHLIKHT, A.A., tekhn. red.

> [Operation and maintenance of heating and ventilating systems] Tekhnicheskaia ekspluatatsiia otopitel'nykh i ventiliatsionnykh sistem. Izd.3., perer. i dop. Moskva, Izd-vo M-va kommun.khoz. RSFSR, 1959. 273 p. (MIRA 12:10) (Heating) (Ventilation)

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206010015-6 BOGUSLAVSKIY, L.; SERKIN, V.; FAYANS, B. Heated sidewalks. Zhil.-kom.khoz. 9 no.2:25-27 '59. (MIRA 12:5) (Snow removal)

BOGUSLAVSKIY, L., ITKIN, A.

.

Economizers for apartment-house beiler units operating on gas. Zhil-komm.khos. 9 no.3:25-26 '59. (MIRA 12:5) (Beilers)

.



BOCHISLAVSKIY, Leontiy Davidovich; VHXSIMR, Z.Ya., red.; BOLOTINA, A.V., red.izd-va; MAZAROVA, A.S., tekhn.red. [Manual for an apartment house mechanic] Posobie dlia slesaria zhilogo doma. Moskva, Izd-vo M-va kommun, khoz.RSFSR, 1960. (MIRA 14:4) 72 p. (Apartment houses -- Maintenance and repair)

BOGUSLAVSKIY, Leontiy Davidovich; SHAL'NOV, A.P., kand.tekhn.nauk, nauchnyy red.; VLADINIROVICH, A.G., red.; TOKER, A.M., tekhn.red.

[Reference book for young sanitary technicians] Spravochnik molodogo santekhnika. Moskva, Vses.uchebno-pedagog.izd-vo Prof-(MIRA 13:9) tekhizdat, 1960. 324 p. (Plumbing)

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FOMICHEV, Boris Ivanovich, dots., kand. tekhn. nauk; BOGUSLAVSKIY, L.D., red.; ZAMYSHLYAYEVA, I.M., red. izd-va; LELYUKHIN, A.A., tekhn. red.

> [Heating systems with water distribution through large conduits] Sistemy otopleniia s kollektornym raspredeleniem body. Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1961. 77 p. (MIRA 15:1) (Hot-water heating)

BOGUSLAVSKIY, Leonid Davidovich; FOMICHEV, B.I., red.; SMIRNOVA, R.N., red. izd-va; KHENOKH, E.M., tekhn. red.

[Economics of heating and ventilation systems]Ekonomika si-stem otopleniia i ventiliatsii. Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1962. 92 p. (MIRA 15:10) (Heating--Costs) (Ventilation---Costs)



Economic efficiency of heating and ventilation systems. Vod.i san.tekh. no.10:1-6 0 '62. (MIRA 15:12) (Ventilation) (Heating)

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i.

BOGUSLAVSKIY, Leontiy Davidovich; KAZANSKIY, N.V., red.; ZAMYSHLYAYEVA, I.M., red.izd-va; MAYOROV, V.V., tekhn. red.

[Maintaining and repairing sanitary equipment in apartment houses and public buildings] Ekspluatatsiia i remont sanitarnotekhnicheskikh ustroistv zhilykh i obshchestvennykh zdanii. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1963. 216 p. (MIRA 17:1)

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CIA-RDP86-00513R000206010015-6"

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BOGUSLAVSKIY, Leontiy Davidovich; FOMICHEV, B.I., red.

[Increasing the efficiency of heating and ventilating [Increasing the efficiency of heating and ventilitating systems] Povyshenie ekonomichnosti sistem otopleniia i ventiliatsii. Moskva, Stroiizdat, 1964. 113 p. (MIRA 17:9)

BOGUSLAVSKIY, L.D., kand.takhn.nauk

Selecting an economically viable alternative of heating an industrial plant. Vod. i san. tekh. no.10:1-2 0 '64.

(MIRA 18:3)

.

BOGUSLAVSKIY, L.D., kand. tekhn. nauk

Economic efficiency of the intermittent heating of in-dustrial buildings. Vod. i san. tekh. no.2:23-25 F '65. (MIRA 18:4)

BOGUSLAVSKIY, L.G.

Rare case of self-strangulation by a noose. Sud.-med.ekspert. 5 no.4:50-51 0-D '62. (MIRA 15:11)

1. Khersonskoye oblastnoye byuro sudebnomeditsinskoy ekspertizy (nachal'nik L.G.Boguslavskiy). (SUICIDE) (DEATH---CAUSES)



BOGUSLAVSKIY, M.A., dotsent, kand. voyennykh nauk, podpolkovnik; CHEREPANOV, L.M., podpolkovnik

> Estimating the tactical radius of airplanes during flight with a varying profile and conditions. Mor. sbor. 48 no.11:51-53 N '64. (MIRA 18:1)

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BOGUSLAVSKIY, L.I.

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AUTHOR TITLE	SHKOLNIKOV, M.Kh., BOGUSLAVSKIY, L.I. The Finishing of Surfaces (Chistovaya obrabotka ploskostey. Russian)
PERIODICAL	charles a Tradminent, 1957, VOL 20, Nr 0, PP J7 and Color
ABSTRACT	The treatment of the heating plates of plate presses represents a dif- ficult problem as their length and width measure up to 3,200 mm; de- viation from the plane and parallel character should not exceed 0,15 and 0,1 over a total length of 1,000 mm and their clean finish- ing must correspond to the 6th standard (see picture 1). For this operation a parallel-planing machine was rebuilt by mounting a cut- terhead instead of a blade-holder on one of the supports. Its opera- ting speed was reduced by means of connecting an additional resistance in the operating winding of the electric motor (from 6 m/min. down to 0,32 m/min.). As a standard cutterhead proved to be too weak a special cutterhead was produced (ill. 2) which is described in detail. The operating indices are given in a table. A vertical lathe was prepared for the treatment of the heating plates of a width of 3.200 mm (ill. 3) and it was supplied with a grinder head. Before grinding the plates are once or twice rough-turned. Grinding is then carried out in 5 - 8 stages until it complies with the standards 7 - 9, which is more than what is required. Grinding is carried out with
Card 1/2	ample emulsion cooling.



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BOGUSLAUSKIY, L.I.

BOGUSLAVSKIY, L.I., inzh.

Burning through crosspieces of heating plates used in multiple-stage presses. Mashinostroitel' no.1:26-27 Ja '58. (NIRA 11:1) (Power presses) (Metal cutting, Electric)

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