

CIA-RDP86-00513R000203810018-8

AKULOV, I.I.; BARZHIN, V.YB.; VALITOV, R.A.; GARMASH, Ye.N.; KUCHIN, L.F.; NAYDEROV, V.Z.; PUTSENKO, V.V.; SEMENOVSKIY, V.K.; SIMONOV, Yu.L.; TARASOV, V.L.; TEREKHOV, N.K.; SHEVYRTALOV, Yu.B.; YUNDENKO, I.N.: CHISTYAKOV, N.I., prof., otv. red.; KOKOSOV, L.V., red.

> [Theory and design of basic radio circuits using transistors] Teoriia i raschet osnovnykh radiotekhnicheskikh skhem na tranzistorakh. Moskva, Sviaz', 1964. 454 p. (MIRA 18:8)

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CIA-RDP86-00513R000203810018-8

BARZILOV, Vladimir Mikhaylovich; AFANAS'YEV, V.V., red.; ZHITNIKOVA, STREET, STREET, STREET, STR TATERATINA DE HEMATELEMANTA ANTALINA DE LA COMPANYA [High-voltage power transformers] Vysokovol'tnye transformatory toka. Izd.2., perer. i dop. Moskva, Gosenergoizdat, 1962. 247 p. (Fleatnic transformers) (MIRA 15:7) ٠

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USHR/ Enginee	ering - Ventilation equipment
Card 1/1	Pub. $71 - 3/17$
Authors	: Darzilov, P. F.
Title	E-mipment of a new dusign for reactomentrol and operation of ventil tors
Periodical	: bech. trud. rab. f, 2431, July 1961
Abstract	A detailed description is propondel of a new appointum for remote-control of mine shift ventil ters. Give appointum was designed by New lin, estich, and decistery, in propert- tion with employees of the bandts broadrial hardback. When grows and illustrations, bejeting the installation and gara- tion of the above mentil ned of potter, are presented.
Institution	:
Submitted	:

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BARZILOVICH, P.P., inshener., laureat Stalinskoy premii; ZAYTSEV, V.I., inshener New automatic control board. Mekh.trud.rab. 7 no.5:13-15 My '53. (Automatic control)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203810018-8"

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SOV/112-58-3-4521 Translation from: Referativnyy zhurnal. Elektrotekhnika, 1958, Nr 3, p 161 (USSR) AUTHOR: Barzilovich, P. P. TITLE: Equipment Nanufactured by "Krasnyy Metallist" Plant (Apparatura vypuskayemaya zavodom "Krasnyy metallist") PERIODICAL: V sb.: Avtomatizatsiya proizvod. protsessov v ugol'n. prom-sti. M., Ugletekhizdat, 1956, pp 5-26 ABSTRACT: Ratings are given, and purposes indicated of the following equipment for automation of mining operations manufactured by the plant: (1) dispatcher's supervisory equipment; (2) equipment for automating low-voltage (AVD-3) and high-voltage (AVV-1 and AVV-3) drainage outfits; (3) equipment for remote supervisory control of the main ventilating fans (AVGP-1 and AVGP-1A); (4) equipment for automatic remote control of band-conveyer lines (according to the VUGI scheme); (5) type PA starting units for remote control of electric drilling machines; (6) AZS-1 equipment for heading face signaling; (7) an Card 1/2

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8(0) Equipment Manufactured by "Krasnyy Metallist" Plant electromagnetic loading regulator for the "Donbass-2" Combine (EMR-2); (8) equipment for hydrocontrol of the feed in the Combine (MPA-15); (9) automatic methane indicator IM-2; (10) equipment for remote control of haulage winches; (11) shaft signaling for sinking the pits (SES-1); (12) sparkproof telephone equipment for sinking the pits (TPI-1). Advantages and disadvantages of the equipment are noted; results of laboratory and industrial tests of some specimens of the new equipment are reported. Illustrations: 8. S.A.P.

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SHCHERBAN', A.N.; FURMAN, N.I., inchener; ZAYTORY V.I., inchener; ERENBURG, I.I., inshener; BARZILOVICH, P.P., inshener.

Automatic continuous duty methane testers. Besop.truda v prom. (MIRA 10:8) 1 no.8:25-29 Ag 157.

1.Deystvitel'nyy chlen AN USSR (for Shcherban') 2.Institut gornogo dela AN USSE (for Shcherban', Furman) 3. Zavod "Krasnyy metallist" (for Zaytsev, Erenburg) 4.Glavukruglemash (for Barsilovich) (Methane) (Gas detectors)

CIA-RDP86-00513R000203810018-8

BARZILOVICH, Vladimir Hikhaylovich; AFANAS'YEV, V.V., redaktor; ZABRODINA, A.A., tekhnicheskiy redaktor

[High voltage transformers] Vysokovol85nye transformatory toka. Moskva, Gos. energ. izd-vo 1956. 167 p. (MIRA 9:5 (Alectric transformers) (MIRA 9:9)

AUTHORS: Gavurina, R.K. (Candidate of Technical Science), Medvedeva, P.A., Yanovskaya, Sh.G., Shklyar, E.N., Dobrer, Ye.K. and Barzilovich, V.M. (Engineers) TITLE: Cast Insulation based on Cold-hardening Unsaturated Polyester Resins (Litaya izolyatsiya na osnove nenasyshchennykh poliefirnykh smol kholodnogo otverzhdeniya) PERIODICAL: Vestnik Elektropromyshlennosti,1958,Nr 8,pp 6-10 (USSR) ABSTRACT: This article describes work on cast insulation made of unsaturated polyester resins. The manufacture of the

unsaturated polyester resins. The manufacture of the resins is briefly described. Reference is made to foreign work on the application of these resins. Soviet resins type KGMS were described in Vestnik Elektropromyshlennosti, 1956, Nr 2. The authors developed and tested casting compounds based on cold-hardening unsaturated polyester resins, and containing quartz dust as a filler. The main technical characteristics of compounds grades AF and F, which were found most suitable for cast insulation, are given in Table 1. Compound AF has the higher strength but the lower resistance to water. The electrical characteristics of the compounds determined on sheets 2 - 4 mm thick

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SOV/110-58-8-3/26 Cast-insulation based on Cold-hardening Unsaturated Polyester Resins

> are displayed in Table 2. Both materials are of high electric strength, but a high dielectric loss at 80°C limits their field of application. Similar sheets were used in determining the influence of moisture on the electrical properties, and the change in power-factor on exposure to humid atmosphere is shown in Fig 1. The casting properties and general behaviour of the compound were tested by incorporating it in current-transformers of type TCh-2, for 2 kV, and TVLD-10, for 10 kV, as illus-trated in Figs 2 and 3 respectively. The first of the The first of these was developed by Engineers V.M. Barzilovich and S.I. Tamarchina and the second by Engineer N.I. Bachurin. The casting procedure was the same for both resins, using open moulds. A graph of the temperature in the thickness of the insulation of current-transformer type TVLD-10 (insulation weight 5 kg) during the process of hardening of the compound is shown in Fig 4. Even in the thickest layers of insulation the temperature-rise did not exceed 10 - 12°; thermal and shrinkage stresses are therefore negligible. Test results on current-transformers insulated

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SUV/110-50-8-3/26 Cast-insulation based on Cold-hardening Unsaturated Polyester Resins the compound AF are given in Fig 3. After prolonged exposure to high humidity, the insulation resistance of current-transformer type TVLD-10 is reduced but still remains fairly high. Current-transformer type TCh2 was tested for resistance to frost at -50°C, and also for resistance to shock ad vibration. The results were Curves of insulation power-factor as satisfactory. functions of voltage and temperature measured on current transformers type TVLD-10 are given in Figs 5 and 6. The results obtained show that the electrical properties of polyester insulation are satisfactory for indoor electrical equipment for voltages of 0.5 - 3 kV. There are 3 tables, 6 figures, and 9 references, 4 of which are Soviet, 4 English and 1 German. SUBMITTED: March 10, 1958 1. Electric insulation--Processing 2. Electric insulation--Materials 3. Resins--Applications Card 3/3

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CIA-RDP86-00513R000203810018-8

KOCHO, V.S.; BARZILOVICH, V.S.; LYADOV, K.P. Prinimali uchastiye: MRYKHINA, V.I., inzh.; OMEL'CHENKO, T.Ye., tekhnik; SHAKARIMOV, Yu., student; YASTOCHKIN, A.I., student; ULANOVSKAYA, L.V., student

Investigating the operation of continuous furnaces with a rolling hearth. Stal' 24 no.2: 177-179 F '64. (MIRA 17:9)

1. Kiyevskiy politekhnicheskiy institut i Kommunarskiy metallurgicheskiy zavod.

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CIA-RDP86-00513R000203810018-8

AUTHORI Barsiloviohy Y. 8.

8/032/60/036/03/037/064 B010/B117

TITLE: A Device to Measure the Surface Tension of Molten Metals

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol 36, Nr 3, pp 346-348 (USSR)

TEXT: Maximum pressure in a bubble (Refs 1-5) is determined in order to measure the surface tension of molten steel and cast iron. The calculations are considerably simplified if maximum pressure of the growing bubble is determined on the circumference of the cross section of the capillary tube so that the diameter of curvature of the bubble is equal to the outside diameter of the capillary tube. Nevertheless, with larger diameters of the capillary tube, the fact has to be considered that the surface of the bubble is not spherical. For calculations, tables compiled on the basis of the capillarity equation (Ref 1) have to be used. A device has been developed (Fig 2) which makes it possible to determine maximum pressure of the growing bubble on both the inner and the outer circumferences of the capillary tube. A description of the device as well as of its performance is given. The pressure change is recorded with a diaphragm through a pneumatic cell, and data are recorded with a reflected beam of light on rotating photographic paper. Records of this kind obtained by determinations performed on cast iron with a quarts capillary tube (outer diameter 0.604 cm,

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KOCHO, V.S., doktor tekhn. nauk; BARZILOVICH, V.S.; PRYADKIN, L.L.; NESMACHNYY, A.N. Automatic control system for heat-treating furnaces with roller sole. Avt. i prob. no.4:77-79 O-D '64 (MIRA 18:2)

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CCESSION	NR: AP4041956		8/0280/64/00	0/003/0038/0045		
UTHOR: B	arzilovich, Ye, Y	u. (Moscov)		•		
ITLE: Deta ystems	ermination of the o	optimal periods	of preventive ma	intenance for auto	omatio	
OURCE: Al	N SSSR. Izv. Tek	hnicheskaya kib	ernetika, no. 3,	1964, 38-45		
OPIC TAGS reventive m	: automatic conti aintenance	col system, syst	tem reliability, c	control system ma	uintonance,	
BSTRACT:	A continuously w	orking automati	c system has a k	nown distribution	function	-: .,
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(t) of the tin nitial state (eriod betwe inding the sy f its correct andom variation orrectly fur	me interval of cor to the time of firs en planned preven ystem in working t performance fro able, are to be ev	rect performan t failure; the int tive maintenanc condition at any om time t to the aluated. The in s a random vari	ce from the time ensity of failure e which assures arbitrary time t time t + x, denot nitial planned mai able Y with distr	when it is return is $\lambda(t)$. The leng maximum probal and a maximum p ed by $p(x, t)$ when intenance period f ibution $G(t)$ and th	ed to its th of the bility of probability re x is a for a he pro-	



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SHISHONOK, Nikolay Andreyevich; REPKIN, Vasiliy Fedorovich; BARVINSKIY, Leonid L'vovich; Prinimali uchastiye LERNER, V.Yu.; LASTOVCHENKO, M.M.; KREDENTSER, B.P.; USHAKOV, I.A.; <u>BARZILOVICH, Ye.Yu.;</u> SENETSKIY, S.A.; ALEKSANDROVA, A.A., red.; GUTCHINA, N.Ya., red.; LYUBIMOVA, T.M., red.

> [Principles of the theory of the reliability and operation of radioelectronic apparatus] Osnovy teorii nadezhnosti i ekspluatatsii radioelektronnoi tekhniki. Moskva, Sovetskoe radio, 1964. 550 p. (MIRA 18:2)

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BARZILOVICH, Ye.Yu. (Moskva) محجدتها والإيارة والمحادثية مرحدي والمتعادي

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Determination of optimum time intervals in preventive maintenance work on automatic systems. Izv. AN SSSR. Tekh. kib. no.3:38-45 Je ¹64.. (MIRA 17:10)

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	L.07084-67 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) ACC NR: AP6028544 SOURCE CODE: UR/0280/66/000/003/0144/0149	<u></u>
	AUTHOR: Barzilovich, Ye. Yu. (Moscow) 30 28 R	یخ . •
	ORG: none	
1	TITLE: Optimal control of a monotonically increasing random process	•.
	SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 3, 1966, 144-149	
	TOPIC TAGS: optimal automatic control, random process, automatic control theory	
	ABSTRACT: The author examines the optimal control of a monotonically increasing random process in which the random process is controllable and the control step is constant. Con- tinuous and discrete random processes are taken into account. In determining the optimal curve of the predicted tolerance when operating a technical device (continuous case) it is as- sumed that the parameter of the technical device is a random monotonically increasing func- tion of time and that the values of this function are known exactly only at equally spaced dis- crete moments of time. In determining the optimal curve of the predicted tolerance when operating a system with a reserve (discrete system) it is assumed that the random process	-
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KALINICHENKO, V.F., kand. wekhn.nauk; KOZLIK, V.I., inzh.; SOV'YAK, M.I., inzh.; <u>BARZILOVICH, Yu.P.</u>, inzh.; CHEREPANOV, A.P., inzh.

New communication equipment for mine hoisting. Gor.zhur. no.10:57-59 0 '64. (MIRA 18:1)

1. Nauchno-issledovatel'skiy gornorudnyy institut, Krivoy Rog (for Kalinichenko, Kozlik, Sov'yak). 2. Sumskoy zavod elektronnykh mikroskopov i elektroavtomatiki (for Barzilovich, Cherepanov).

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TEFIMOV, L.M., kand.tekhn.nsuk; LITVINENKO, D.A., kand.tekhn.nsuk; BAEZIY, L.M., insh.; MARINOV, A.I., insh.; YAUUSHIN, V.I., insh? Production of semikilled steel (with summary in English). Stal' 18 no.10:885-890 0 '58. (MIRA 11:11) 1. fSentral'nyy nauchno-iseledovstel'skiy institut chernov motellurgii i savod "Zaporoshatal'." (Steel-Metallurgy)

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19 VOL 14 OC 1	
B	arziy, K.K. 133-10-21/26
	T and Ranziv. V. A. Billing and Ranziv.
	Turnon: AUSHIK, AV IV IV INTO IN Terre O8kn Steel Ingots Mil.
• ٠.	UTHOR: Koshik, A. I. and <u>Halling</u> oskin Steel Ingots Mi. ITTIEI Non-Metallic Inclusions in Large OSKn Steel Ingots Mi. (Nemetallicheskiye Vklyucheniya v Krupnykh Slitkakh Stali OSKT).
	TERTORT CAT. Stall 1957, No.10, pp. 943-945 (USSR).
	ABSTRACT: The nature and the distribution of non-metallic inclusions in 9 to 14 t. bottom poured ingots of 08km steel produced in 195 t., basic open hearth furnaces were investigated. It was found that large silicate inclusions were mainly distributed in the bottom part of the ingots and small inclusions in the crust zone or throughout the whole volume of the ingots. Complex oxide inclusions containing a large proportion of manganous oxide were situated mainly in the top and bottom parts of 14 ton ingots, and in 9 t., ingots mainly in the zone of honeycomb blow holes. In the case of 9 t., ingots the above positioning of inclusions was explained by an insufficient boiling of metal in moulds. Sulphurous inclusions of FeS and (FeMn)S types were mainly distributed along grain boundaries near to the blow holes in the upper part of the ingots. In ingots, the metal of which was boiling insufficiently in moulds, Card 1/2the above inclusions were observed in the zone of

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203810018-8 CARACTER . 1 Non-Metallic Inclusions in Large 08K# Steel Ingots CKT. 133-10-21/26 secondary blow holes. There are 7 figures. ASSOCIATION: Zaporozhstal' Works. (Zavod Zaporozhstal'). AVAILABLE: Library of Congress Card 2/2

AUTHOR: Barziy, V. K., and Kolot, S. S., Engineers.
TITLE: A Method of Increasing the Strength of IX18H9T Steel Sheets for Hot Stamping. (Sposob Povysheniya Prochnosti Listov Stali IX18H9T Dlya Goryachego Shtampovaniya).
PERIODICAL: Stal', 1957, No.10, p. 950 (USSR).
ABSTRACT: Changes in the mechanical properties with variations in heating practice of hot rolled non-hardened sheets from IX18H9T steel, work hardened by a 15% reduction were investigated. The results obtained are given in the table. It was found that annealing at 750-280°C produces the required effect (ds above 70 kg/mm with ds 30%). There is 1 table.
ASSOCIATION: Zaporozhstal' Works. (Zavod Zaporozhstal').
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Cold rolled deep drawing sheets from steels containing vanadium or aluminium. (Cont.) 133-5-16/27

(0.5 kg/ton) as well as in undeoxidised metal with an addition to the ladle of 0.1 kg/ton of aluminium. Rimming steel with vanadium was bottom cast while killed steel was top pured into ingot moulds with shrinkage heads. The chemical composition of experimental steels and the usual rimming steel OSKMBF is given in Table 1. Experimental ingots were rolled into slabs 95-115 mm thick. Slabs were rolled on a continuous mill into strip 2.0-2.5 mm thick with coiling at 820-850°C. After pickling and cutting the hot rolled strip was cold rolled into sheets 0.9-1.2 mm thick (reduction 45-64%), annealed at 680-700°C and dressed with reduction of 0.8 -1.2%. The proportion of sheets rejected due to surface defects (films) for killed with aluminium steel was much higher (12%) than for rimming steel with vanadium and without additions (about 0.1%). The results of testing cold rolled sheets from experimental mets for stretching and depth drawing as well as determinations of hardness and micro-hardness are compared in Figs. 1 and 2 and Table 2. The micro-structures are shown in Fig. 3. The mechanical properties of cold rolled sheets after dressing and natural and artificial ageing are shown in Table 3. Results of stamping of motor car parts from

Card 2/4

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Cold rolled deep drawing sheets from steels containing vanadium or aluminium.(Cont.) 133-5-16/27

experimental sheets (% of rejects for the individual parts) are given in Table 4. The experimental results indicated that ium or to killed steel of 0.07% of aluminium inhibits the process of mechanical ageing. In order to decrease the loss of vanadium the addition should be done in the ladle after prelimanganese. The addition of ferro-vanadium in a proportion of 0.5 - 0.7 kg/ton has no noticeable effect on the boiling of rimming steel (0.03 - 0.04%) possess high mechanical properties which remain practically unchanged with time and with high kovskiy Motor Works permitted decreasing the number of operations during stamping. Low carbon steel deoxidised with aluminium also possesses stable mechanical properties. It is expected that killed steel will find wide application in the will improve so as to decrease the proportion of rejected sheets due to surface defects. There are 4 tables, 5 figures

Card 3/4

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BARZIY, V.K. 133-2-12/19 AUTHORS: Barziy, V.K. and Kolot, S.S. (Engineers) of Steel O8kn. (Otzhig TITLE: Annealing of Cold Rolled Sheets kholodnokatanykh listov stali O8kp) PERIODICAL: Stal', 1958, Nr 2, pp.159-161 (USSR) ABSTRACT: A study of the dependence of properties of cold rolled sheets on the degree of reduction during cold rolling and on the temperature and duration of annealing as well as establishing optimum annealing conditions is described. The influence of cold rolling and annealing on the size of ferrite grains was investigated under laboratory conditions, and on the microstructure, mechanical and technological properties under works conditions. The experimental results are given in Tables 1 and 2 and Figs.1-3. The composition of metal used for the investigation: 0.07-0.10% C; 0.30-0.41% Mn; 0.020-0.029% S and 0.008-0.013% P. Conclusions: An increase in the size of ferrite grains on annealing was observed when the temperature was increased up to 650°C. Further increase in temperature (up to temperatures of phase transformations) does not promote the growth of ferrite grains. The most sensitive characteristic of cold rolled sheets to changes in annealing conditions is yield point. The accuracy of the evaluating of the size of Card 1/2

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133-2-12/19

Annealing of Cold Rolled Sheets of Steel O8kn.

ferrite grains according to FOCT 5639-51 is insufficient. The quality of cold rolled sheets for stamping according to BF group, annealed under conditions established in this work (heating at 680°C with 2 hours soaking instead of the previously used 8 hours) does not deteriorate. The following participated in the work: I.L.Slatkin, M.M. Ioffe, (Engineers), M.T.Ryazanova, T.I.Zorya, N.K.Skorobogatova, G.K.Zamytskaya and Petkova, E.F. (Technicians). There are 2 tables and 3 figures.

ASSOCIATION: Zaporozhstal' Works (Zavod "Zaporozhstal'")

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SOV/133-58-10-8/31 Yefimov, L.M., Litvinenko, D.A., Candidates of Technical Sciences, Barziy, V.K., Marinov, A.I. and Yakushin, V.I., AUTHORS: The Production of Semi-killed Steel (Proizvodstvo Engineers poluspokoynoy stali) TITLE: PERIODICAL: Stal', 1958, Nr 10, pp 885 - 890 (USSR) An investigation of optimum deoxidation conditions for the production of semi-killed steel is described. Experimental heats were carried out when smelting O8ps and MSt3ps nears were carried out when smelling usps and movyps steels. Smelting technology was the same as for the production of corresponding rimming steels. Heats were carried out on 185-ton open-hearth furnaces with magnesite-ABSTRACT: chromite roofs, with supply of oxygen to the bath. The proportion of hot metal - 65%. Smelting conditions re described in some detail. The composition of experimental heats and teeming conditions are given in Table 1. A comparison of chemical non-uniformity of hot rolled strip from rimming and corresponding semi-killed steel is given in Table 2. It was found that semi-killed steel obtained by deoxidation of rimming steel in ingot moulds, corresponds as to microstructure and mechanical. Card1/2

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The Production of Semi-killed Steel

SOV/133-58-10-8/31

properties of hot and cold rolled sheets to the requirement of standards for respective rimming steel; as to: chemical uniformity and drawing properties it is noticeably superior to rimming steel, approaching the corresponding properties of killed steel. An addition of 350-400 g/t (for 0.8ps) and 150-200 g/t (for MSt3ps) of aluminium during top teeming at the end of filling of the moulds leads to an increase in the yield of metal on the slabbing mill to 90%. A further large-scale check of the results obtained is recommended. There are 2 tables.

ASSOCIATIONS:

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	SOV/133-58-10-17/31
AUTHORS:	Borisenko, V.G. and Barziy, V.K.
TITIE:	A Decrease in the Thickness of Coating During Hot Tinning of Black Sheets (Umen'sheniye tolshchiny pokrytiya pri goryachem luzhenii zhesti)
PERIODICAL	: Stal', 1958, Nr 10, pp 920 - 922 (USSR)
ABSTRACT:	The influence of micro-relief of the surface of strip, small differences in the thickness of simultaneous coated strips, the temperature of tin and speed of strip on the thickness of tin coating was investigated. It was found that the micro-relief of the surface undergoing tinning has an influence on the thickness of coating. With deterioration of the state of the surface, the consumption of tin increases. With an improvement of the degree of cleanliness of the surface from the 7th to the 10th class (GOST 2789-51) the thickness of coating, under other conditions constant, decreases by 6-10%. When tinning simultaneously a few strips with a maximum permissible difference in their thickness of the coating on thinner strips increases approximately by 10%. Tinning at an increased temperature of the tin to 320-330 °C
Card1/2	(instead of the usual temperatures of 280-300 °C) and

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CIA-RDP86-00513R000203810018-8

A Decrease in the Thickness of Couting During Hot Tinning of Black Sheets

> other conditions constant, permits decreasing the coating thickness by 8-9%. The advisability of the decrease in the tin consumption for coating by utilising higher temperature should be checked with regard to the overall tin consumption. With increasing velocity of passage of strip through the tinning bath, the thickness of coating increases. With velocity increasing from 2.2 to 4.45 m/min, the thickness of tin coating increases by 40%. There are 3 figures and 1 table.

ASSOCIATION: Zavod "Zaporozhstal'" ("Zaporozhstal" Works)

Card 2/2

1 Standard

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THE REAL PROPERTY.

SOV/133-58-10-22/31 AUTHORS: Litvinenko, D.A. Candidate of Technical Sciences and Marinov, A.I., Barziy, V.K. and Yakushin, V.I., Engineers The Production and Properties of Aluminium-Killed Non-TITLE: ageing Sheet Steel (Proizvodstvo i svoystva uspokoyennoy alyuminiyem nestareyushchey listovoy stali) PERIODICAL: Stal', 1958, Nr 10, pp 931-938 (USSR) ABSTRACT: The development of the technology of production of killed non-ageing steel containing aluminium and suitable for the manufacture of cold-rolled sheets which, in addition to high drawing properties and non-sensitivity to slip lines, possessed good surface when rolled from non-dressed slabs. Two deoxidation methods of low-carbon O8kp VGV steel were tested: 1) with aluminium shot in top-poured moulds and 2) with aluminium in the ladle and subsequent bottompouring of ingots. The quality of the experimental metal was tested during all manufacturing stages, including stamping of motor-car bodies. It was established that in order to produce motor-car bodies without defects due to slip lines, by stamping, it is advantageous to use cold-rolled sheets of low-carbon steel in which the process of mechanical ageing is localised by stabilising additions Card 1/4

APPROVED FOR RELEASE: 06/06/2000

The Production and Properties of Aluminium-Killed Non-Ageing Sheet

of vanadium or aluminium. From economic considerations, aluminium is more advantageous. Introduction into lowcarbon rimming steel O8kp VGV of aluminium in an amount sufficient to obtain not less than 0.02% of residual aluminium sharply increases the stability of steel against mechanical ageing. Work hardening and a decrease in plastic properties as well as the appearance of the yield stage on the tensile curve of such steel is observed only after an artificial ageing at 200 °C for one hour. On decxidation of the metal with aluminium shot in moulds, when the level of the metal is about 150 - 200 mm below the filling level, the quality of the surface of coldrolled sheets is higher than from killed steel decxidised with aluminium in the ladle and bottom-poured. Moreover, for the decxidation in moulds about 50% less aluminium is defects in ingots of killed steel top-poured into moulds (wide and down) without tops, are completely welded during cold rolling. Therefore, sheets made from the upper third of ingots are not inferior in quality from those made from the bottom half of the ingots. For the above reason, the

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The Production and Properties of Aluminium-Killed Non-Ageing Sheet

yield of slabs from such ingots should be about 90% which is higher than from rimming steel ingots. Large ingots (9-18 ton) of aluminium-killed steel are more uniform in chemical composition and mechanical properties in comparison with rimming steel ingots. The above permits improving the technology of low-carbon steel for hot and cold-rolled sheets VGV by: a) increasing the weight of ingots to 18 tons and above; b) increasing the range of permissible sulphur content to 0.03% instead of 0.025%; c) economising ferromanganese and d) rolling VGV sheets from the head of killed steel differ from sheets of 08kp VGV steel mainly in the tendency to form finer grains and fine, structurally free cementite, as well as non-equilibrium metallic inclusions of the killed steel consist mainly of uniformly distributed aluminates, the amount of which is

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The Production and Properties of Aluminium-Killed Non-Ageing Sheet Steel higher when aluminium is introduced in moulds than when it is introduced in the ladle. There are 1 figure, 5 tables and 3 Soviet references. ASSOCIATIONS: TsNIIChM and zavod "Zaporozhstal'" ("Zaporozhstal' Works)

Card 4/4

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APPROVED FOR RELEASE: 06/06/2000

BARZIY, V.K.

Kalugin, V.F., V.K. Barziy, S.G. Glazunov, T.S. Kuzina, and B.N. Popov (State Committee on Aircraft Engineering, Council of Ministers of the USSR). Production of Large-Sized Cold-Rolled Sheet From Vt-1D Alloy, p. 133. Titan i yego splavy. vyp. II: Metallurgiya tits a (Titanium and Its Alloys. No. 2: Metallurgy of Titanium) Moscow, Izd-vo AN SSSR, 1959. 179 p.

This collection of papers deals with sources of titanium; production of titanium dioxide, metallic titanium, and titanium sheet; slag composition; determination of titanium content in slags; and other related matters. The sources of titanium discussed are the complex sillimanite ores of the Kyakhtinskoye Deposit (Buryatskaya ASSR) and certain aluminum ores of Eastern Siberia. One paper explains the advantages of using ilmenite titanium slags for the production of titanium dioxide by the sulfuric acid method. Production of metallic titanium by thermal reduction processes (hydrogen, magnesium, and carbon reduction) is the subject of several papers, while other papers are concerned with the electrolytic production of titanium. Other subjects dealt with are interaction of titanium with water vapor and with hydrogen and the determination of titanium in slags.

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Barziy, V.K., Vaynshtok, M.I. and Sov/133-59-5-24/31 Barziy, V.K., Bagineers AUTHORS: The Quality of a 13-ton Ingot of Steel 14KhGS (Kachestvo TITLE: 13-t slitka stali 14KhGS) PERIODICAL: Stal', 1959, Nr 5, pp 456 - 459 (USSR) ABSTRACT: In view of the high-quality requirements for sheets from steel 14KhGS (used for the manufacture of tubes) a thorough investigation of a 13-ton ingot of this steel, particularly regarding its chemical uniformity and distribution of non-metallic inclusions, was carried out. Steel was smelted in a 195-ton open-hearth furnace, whereupon the metal was deoxidised in the bath with ferromanganese (8 kg/t), silicomanganese (12 kg/t) and ferrochromium (10 kg/t) and in the ladle with 75% ferrosilicon (7.5 kg/t), aluminium (0.25 kg/t) and ferrotitanium (2.5 kg/t). The metal was top-poured into moulds 2 200 mm high with a cruba-section of the shrinkage head 1 100 x 640 mm. Chemical composition, %: C 0.13, Mn 1.07, Si 0.55, S 0.030, P 0.016, Cr 0.63, Ni 0.04, Cu 0.10. Three ingots, the second, eighth and fifteenth in the sequence of teeming, were selected for the Card1/3

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. . . . SOV/133-59-5-24/31 The Quality of a 13-ton Ingot of Steel 14KhGS investigation. The investigation of the macro and microstructure, the degree of chemical uniformity, the character and the distribution of non-metallic inclusions and the degree of saturation of metal by gases was done on a plate 25 mm thick, cut out along the height of the eighth ingot (middle position in the sequence of teeming). Sulphur print of the longitudinal cross-section of the ingot is shown in Figure 2, changes in the content of carbon and sulphur - Table 1 and Figure 3, chemical composition of non-metallic inclusions, Table 2, the distribution of gases at various levels of ingot height - Table 3. It was found that: 13-ton ingots of the above steel possess a satisfactory macrostructure; the shrinkage cavity is situated in the shrinkage head of the ingot. In the top part of the ingot a comparatively small positive segregation of sulphur and phosphorus was observed In the bottom part of the ingot there is a zone with a negative segregation of sulphur; the segregation of carbon is positive nearly in the whole ingot. The remaining elements (silicon, manganese and chromium) do not Card2/3

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The Quality of a 13-ton Ingot of Steel 14KhGS

show any segregation. The largest sulphide inclusions are situated mainly in the axial zone of the ingot and silicate inclusions mainly near to the crust zone - in the head and bottom part of the ingot. Insignificant amounts of alumina and titanium nitrides are distributed uniformly across the cross-section of the ingot. Among non-metallic inclusions, rutile and titanium carbonitrides were found. The content of oxygen in the metal of the ingot investigated varied from 0.0013 to 0.0030% and that of hydrogen from 0.0001 to 0.0002%. The metal was uniform

in respect to the nitrogen content (0.004%). There are 3 tables and 6 figures. ASSOCIATION: Zavod "Zaporozhstal!" ("Zaporozhstal!" Works)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203810018-8

1	000 77463 S0V/133-60-1-24/30
AUTHORS:	Chirkin, V. M., Barziy, V. K. (Engineers)
TITLE:	The Effect of Structure on Mechanical Properties and Deep-Drawing Capacity of Steel Killed by Aluminum
PERIODICAL:	Stal', 1960, Nr 1, pp 74-77 (USSR)
ABSTRACT:	This is a brief report concerning the study of dif- ferences in mechanical properties and deep-drawing capacity of nonaging steel with aluminum (steel O8Yu) manufactured by two alternate technological methods resulting in different microstructures of annealed cold-rolled sheets. The test melts of such sheet steel were produced in 200-ton open-hearth furnaces as rimmed steel and (after tapping) were fully oxidized by aluminum. The ingots were heated in soaking pits at 1,350-1,360° C and rolled into slabs which, after holding in continuous furnaces at 1,250-1,350° C for 1-1.5 hours, were rolled
ard 1/7	in a continuous mill into strips 2-3 mm thick. Part of these strips (after hot-rolling) were coiled without the

The Effect of Structure on Mechanical Properties and Deep-Drawing Capacity of Steel Killed by Aluminum 77463 S0V/133-60-1-24/30

preliminary water-cooling (temperature of the strip over 700° C. Alternate I). Another part (during the movement over the roller conveyor) was subject to water-spray-cooling through the nozzles installed before the coiler (coil temperature under 650° C. Alternate II). The chemical composition, the method of cooling the strips before coiling, and the type of microstructure of cold-rolled sheets of six test melts are given in Table 1. With water-spraying of hot-rolled strips before coiling, the structure of annealed cold-rolled sheets consisted of flattened, stretched in two directions grains of ferrite called "pancake-shaped." Without the application of watercooling of strip before coiling, the annealed coldrolled sheets had a regular microstructure of equiaxial grains of ferrite. The metal of six test melts shown in Table 1 was sent to Gor'kiy Automobile Plant (Gor'kovskiy avtomobil'nyy zavod) for deep-drawing.of

Card 2/7

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The Effect of S Properties and of Steel Killed	Structure on Mechanical Deep-Drawing Capacity I by Aluminum	77463 S0V/133-60-1-24/30
	complex body shapes. The showere subject to check tests the "Zaporozhstal'" Plant (za and the Gor'kiy Automobile (za and the G	in the laboratories of avod "Zaporozhstal'") lant. The results of The authors arrived at (1) Depending on the aled cold-rolled sheets ave the microstructure long, stretched in two) grains. (2) The hardness, and the depth of Ericksen's
10 mg 11 /7	indentation of O8Yu sheets w are better than those of the grain. The elongation and t about the same for both. (3 O8Yu with "pancake" grain ha capacity than the sheets of grain and have equal surface	ith "pancake" structure sheets with equiaxial ensile strength are) The sheets of steel ve higher deep-drawing this steel with equiaxial
ard 4/7	gram and have equal surrive	

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The Effect of Structure on Mechanical Properties and Deep-Drawing Capacity of Steel Killed by Aluminum 77463 S0V/133-60-1-24/30

Caption to Fig. 3.

Fig. 3. Mechanical properties (frequency curves) of sheets of O8Yu steel with equiaxial (a) and "pancake-shaped" (b) grains (the reserve of deformability is the algebraic difference between the actual and standard (according to the All-Union State Standard 914-56) (GOST 914-56) depth of indentation by Ericksen).

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The Effect of Structure on Mechanical Properties and Deep-Drawing Capacity of Steel Killed by Aluminum

77463 SOV/133-60-1-24/30

(4) The rapid cooling of strips (after hot-rolling) to temperature below 650° C, required for formation of "pancake" grain in annealed cold-rolled sheets of OBYu steel, can be achieved by application of water-spraying before coiling, also (without water-spraying) by the sufficiently colling, also (without water-spraying) by the sufficiently long duration of travel of the strip through the conveyor. There are 3 figures; 4 tables; and 3 references, 1 Soviet, 1 U.K., 1 U.S. The U.K. and U.J. references are: A. J. K. Honeyman, Sheet Metal Industries, 1955, Vol 32, Nr 343, pp 855-59; 1957, Vol 34, Nr 357, pp 51-65; R. L. Solter and C. W. Beatte, Journal of Metals, 1951, Vol 3 TY pp 721-26 Vol 3, IX, pp 721-26.

ASSOCIATION:

C BANGHATZAN

Central Scientific Research Institute of Ferrous Metal-lurgy and "Zaporozhstal'" Plant (TsNIIChM i zavod "Zaporozhstal'")

Card 7/7

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CIA-RDP86-00513R000203810018-8

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S/133/60/000/012/013/015 A054/A027

18.1130

AUTHOR: Barziy, V.K., Engineer

TITLE

Plastic and Anticorrosive Properties of Cold-Rolled Annealed Sheets of 1 X 1849T (IKhl8N9T) Type Steel

PERIODICAL: Stal', 1960, No. 12, pp 1134-1135

TEXT: The more stringent version of the fOCT.6032-58 (GOST 6032-58) requires the lKhl8N9T brand steel to be more resistant against intercrystalline corrosion, which can be attained by an increase in its Ti-content. A high [Ti]: [C] proportion in the steel decreases the workability of the steel, however, and leads to surface defects of the cold-rolled sheets of this steel. The resistance of the steel against general corrosion in agressive media depends on the dispersed condition and the structure of carbides and nitrides separating during heating. It was found that after cold-forming of this steel the separation of carbides takes place not only at the border of the former grains, but also at the sliding surfaces formed during deformation. This makes the dispersion of carbides more uniform. In order to investigate this problem and the possibility of producing lKhl8N9T brand steel with high plasticity and at low cost, tests were carried out with cold rolled lKhl8N9T steel sheets, 2 mm thick, from two types, having the following composition: Card 1/5

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CIA-RDP86-00513R000203810018-8

88501 8/133/60/000/012/013/015 A054/A027

Plastic and Anticorrosive Properties of Cold-Rolled Annealed Sheets of 1X18H97 (1Kh18N97) Type Steel

C Mn Si S -- P Cr Ni A 0.10 1,08 0.54 0.010 0.026 17.46 10.03 Ti. T1/C B 0.08 1.01 0.55 0.010 0.028 17.00 10.40 0.47 4.7 In the tests intermediary hardening (at 1,100°C) was replaced by annealing at 0.56 850°C for two hours, in rolls. After heat treatment the samples were tested for mechanical properties. The trend to intercrystalline corrosion was investigated according to GOST 6032-58 and the corrodibility in general, by boiling in a 65% solution of nitric acid. It could be established that the cold-rolled 1Kh18N9T brand steel sheets displayed high plasticity (satisfying GOST 5582-50) after a 2-hour annealing interval. Additional annealing at 650 °C for two hours did not change considerably the properties of the metal. Replacement of one of the two hardening processes by annealing at 8500C, for two hours, will not only simplify the process, but also make it cheaper. There

ASSOCIATION: Zavod "Zaporozhstal' (The Zaporozhstal' Plant).

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S/133/60/000/012/013/015 A054/A027

Plastic and Anticorrosive Properties of Cold-Rolled Annealed Sheets of 1 X 18 H9 T (1Kh18N9T) Type Steel Indices of mechanical properties of - - -

Ā	t various	temperature	properties a Ta	of i ble i	and	B melt	samples	after	heat	treatment	
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• 2 • 7 • 1	• •	\$ ₈ ,	kg/mm ²	đ. *,	kg/mm ²	δ <u>5</u> :**,	\$	RB	· · ·
Temp oc	Hold- ing time hour	A	В	A	В	A	В	<u>.</u>	В
750	2 4 8	42,1 41,0 39,0	35,6 34,2 32,9	71,4 71,0 70,4	66,0 64,6 64,6	47,5 48,4 50,1	50,7 49,4 50,6	92 91 89	87 86 85
850	2 4 8 2	36,8 37,2 33,6	33,9 33,3 31,8	69,0 69,6 67,0	65,9 65,4 63,9	53,4 49,2 53,4	52,4 53,7 52,4	87 89 85	83 86 85
900 1100 Card 3	4 8 /5	34,2 33,7 34,0 30,7	32,2 31,5 30,1 27,5	67,8 66,5 67,2 65,9	64,4 64,3 62,5 62,9	53,4 52,5 51,7 55,1	54,0 52,4 51,5 62,7	86 86 85 83	85 84 83 78

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Plastic and Anticorrosive Properties of Cold-Rolled Annealed Sheets of 1 X 18 H 9 T (1Kh18N9T) Type Steel Table 2 Influence of additional annealing on the mechanical properties, numerators-

without additional annealing, denominators; with additional annealing at 650°C for 2 hours; steels of melt B, heat-treated at various temperatures

ļ	Temp. of treatment oc	d _s , kg∕mm²	o _B , kg∕mm ²	\$5, %	R _B	1
	750	<u> 34,2 </u> 38,2	<u>64.6</u> 68,7	<u>47,9</u> 50,0	<u>86</u> 90	
	8 <u>5</u> 0 900	<u> </u>	<u>65,4</u> 65,8 64,3	<u>53,7</u> 55,0	<u>86</u> 86	X
	1100	<u>33,3</u> 33,9 <u>31,5</u> 31,0 <u>27,5</u> 29,5	65,4 65,8 64,3 64,3 62,9 63,2	<u>53,4</u> 53,4 <u>50,1</u> 53,4	<u>84</u> 84 <u>78</u>	
(Card 5/5	<u> </u>		22,4	80	

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EXTREM SALAR

NATAPOV, B.S.; BARZIY, V.K.; OL'SHANETSKIY, V.Ye.; Prinimali uchastiye: FILONOV, V.A., inzh.; YUDIN, M.I., inzh.; IOFFE, M.M., inzh.; POPOV, S.M., inzh.; RYBALKO, G.I., inzh.; ODINETS, L.I., inzh.; SIGALKO, F.V., inzh.; TSIVIRKO, D.Ye.; VOLOSHCHUK, M.D., inzh.

> Heat treatment of cold-rolled sheet metal. Stal! 22 no.2:163-165 F '62. (MIRA 15:2)

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- AFRICA STATE

BARZIY, V.K., inzh.; IOFFE, M.M., inzh.; CHERKASHINA, N.P.. inzh.; ORLOVA, T.I., inzh.

> Increasing the corrosion resistance of electrically welded IKh18N9T steel pipe. Stal' 22 no.10:944 0'62. (MIRA 15:10)

1. Zaporozhskiy staleplavil'nyy zavod. (Pipe, Steel--Corrosion)

APPROVED FOR RELEASE: 06/06/2000

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s/133/63/000/001/010/011 A054/A126 Natapov, B. S., Soroko, L. N., Barziy, V. K., Filonov, V. A. (De-AUTHORS: ceased), Gurskiy, G. L., Ioffe, M. M., Letchford, N. I., Yudovich, 8. Z. Improving the stamping properties of O8 10 (O8Yu) grade sheet steel TITLE: PERIODICAL: Stal', no. 1, 1963, 84 - 86 A new technology has been developed to produce low-carbon (0.04 -TEXT: 0.08%) steel suitable for cold rolling of automobile sheets having good stamping properties and which do not tend to age. From the tests (carried out in co-operation with I. A. Goncharov, G. Mikhaylov, F. A. Ksenzuk, V. G. Antipenko, M. Ye. Kugayenko, L. Dobrovol'skiy, L. I. Odinets, N. P. Cherkashina, A. K. Yaitskiy, I. N. Avramenko, M. I. Lyakhova, R. I. Razumovskaya, S. M. Popev, A. L. Khudas ("Zaporozhstal'"), N. P. Semperovich, V. Ye. Ol'shanetskiy, M. D. Voloshchik, F. V. Sigalko (ZMI), K. M. Romanycheva, V. G. Kochevatov (GAZ)) it was concluded that the manganese content of the test grade should be lowered to 0.24 - 0.35%, while the quantity of other elements that increase the hardness Card 1/2

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CIA-RDP86-00513R000203810018-8

KALUGIN, Viktor Filippovich; <u>BARZIY</u>, <u>Vyacheslev</u> Kupriyanovich; GLAZUNOV, Sergey Georgiyevich; KUZINA, Tamara Stepanovna; POPOV, Boris Nikolayevich; OGURTSOV, Aleksandr Ivanovich; OL'SHANSKAYA, I.V., inzh., ved. rdd.; PONOMAREV, V.A., tekhn. red.

> [Technology of ingot forging and the continuous rolling of large-size, commercially pure, VT1D titanium sheet. Over-all mechanization of the loading and unloading of ingots from holding furnaces] Tekhnologiia kovki slitkov i nepreryvnoi prokatki krupnogabaritnogo lista iz tekhnicheski chistogo titana VT1D. Kompleksnaia mekhanizatsiia protsessov.zagruzki i vygruzki zagotovok iz metodicheskoi pechi. [By] A.I. Ogurtsov. Moskva, Filial Vses.in-ta nauchn. i tekhn. informatsii, 1958. 17 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 5. No.M-58-22/3)

> > (MIRA 16:3)

(Titanium) (Rolling (Metalwork)) (Materials handling-Equipment and supplies)

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CIA-RDP86-00513R000203810018-8"

CHILLIAN MARKS

NATAPOV, B.S.; SOROKO, L.N.; BARZIY, V.K.; FILONOV, V.A. [deceased]; GURSKIY,G.L.; IOFFE, M.M.; LETCHFORD, N.I.; YUDOVICH, S.Z.

Improving the stampability of nonaging OSIU sheet steel. Stal: 23 no.1:84-86 Ja '63. (MIRA 16:2)

APPROVED FOR RELEASE: 06/06/2000

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BARZIY, V.K., inzh.; BORISENKO, V.G., inzh.; VAYNSHTOK, M.I., inzh.; MOSHKEVICH, Ye.I., inzh.

Studying 11.3 ton ingots of transformer steel. Met. i gornorud. prom. no.3:57-61 My-Je '63. (MIRA 17:1)

1. Zavod "Zaporozhstal'" (for Barziy, Borisenko, Vaynshtok). 2. Zavod "Dneprospetsstal'" (for Moshkevich).

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askaronskiy, E. N.; Lyu avskaya, S. G.	blin, Ye. B.; 1	'el'dgandler, E.	<u>G.; Cherkashina, N. P.; Chern</u>
ORG: <u>Central Scientific</u> yy nauchno-issledovatel	Research Insti 'skiy institut	tute of Ferrous chernoy metallu	Metallurgy, Moscow (Tsentral's
ITLE: A study of the p	lasticity of 1	Ch21N5T (E1811)	steel at high temperatures
OURCE: Moscow. Tsentra	l'nyv nauchno-i	asledovatel'ski	y institut chernoy metallurgii. Lavy (Special steels and
OPIC TAGS: stainless st ion, austenite, ferrite	ceel, heat trea , temperature d	plastic tment, hot-duct ependence / 1Kh2	ity, Hity, metallographic examina- 21N5T steel, EI811 steel
omposition. The depende eratures was also studie 200, 1250 and 1300°C for	the effect of t ence between ph ed. Samples we pl. 2. 5 and 1	emperature and i ase ratios an <u>d m</u> re water quenche 0 hr. Hot torsi	Ni and 0.25-0.53% Ti were pre- ingot cementation time on phase metal plasticity at high tem- ed after heating/at 1000, 1100, on tests were conducted at a
wist rate of 60 rpm at 9 ard 1/2	000, 1000, 1100	, 1200, 1250 and	1 1300°C after a 20 min soak.
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The number of hot fracturing, the sa and then examined treatment for each sentative steel sa or increase in tim in the $1200-1300^{\circ}($ ture became ferrit of a- and y-phases resulted for y-pha EI811 steel be so cal, i. e., at 129 6 figures.	mples were wa metallographi a steel is giv imples. The q he at temperat c range; by ho tic. The plas in the struct ase contents d when at bicket	ter quenched t cally. The am ren. Micrograp quantity of fer cure, with the olding for 10 h sticity at diff cture at the gi less than 25-30 o temperatures	o retain the hig oount of austenit whs of each treat rite increased w most intense a - irs in this range Ferent temperature liven temperature 0%. It was recom- throughout rolli	n temperature s e as a function with rise in tem > γ conversion of almost all of res depended on . Maximum plast amended that the ing than is norm	of heat for repre- operature occurring the struc the ratio ticity ingots o mally typi
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	L 07152-67 EMP(k)/EMT(d)/EMT(m)/EMP(h)/EMP(1)/EMP(w)/EMP(v)/EMP(t)/ETI IJP(c)
-	ACC NR: AP7001004 JD/HW , SOURCE CODE: UR/0383/66/000/003/0036 0038
	BARZIY, V. K., TREGER, Yo. I. 35
	"Tests of Steel 9khiSVF Working Rolls for Cold Rolling"
	Dnepropetrovsk, Metallurgicheskaya i Gornorudnaya Promyshlennost', No 3, May-Jun 66, pp 36-38
	Abstract: Working rolls 400X1200 mm in diameter made at the <u>Elektrostal</u> <u>Plant of Heavy Machine Building</u> from the new 9Kh2SVF steel developed by the
	Central Scientific Research Institute of Technology and Machine Building have been used since 1962 on the reversible 1200 cold rolling mill at the
	"Zaporozhstal'" Plant used basically for rolling low-carbon sheet and transformer steel. The new grade of steel has the following chemical composition (\$): C 0.8-0.9 Mn 0.2-0.3 Si 1.2-1.8 Cr 1.9-2.1 N < 0.15
	W 0.4-0.6 V 0.1-0.2
	According to data put out by the Central Scientific Research Institute of Tech- nology and Machine Building, this steel differs from <u>9Kh2</u> steel in having higher hardenability, structural stability under the effect of temperature and pressure
	and increased resistance to surface marring. The use of 9kh2SVF steel made it possible to increase the annealing temperature of the rolls from 160-180°C to 200-220°C thus reducing the level of internal stresses produced by the use of
	industrial-frequency current for hardening while maintaining the same hardness in the surface layer of the roller as produced by annealing at $160-180^{\circ}$ C for rolls Card $1/2$
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ACC NR: AP7001004			2
stability for rolls a a slight increase in rolled metal per mill zation of the working in roll diameter before 9Kh2 steel. The int rolling mills will u	Data from years 1962-1965 show a 45-78 p made from steel 9Kh2SVF than from 9Kh2 stee the effectiveness of the hardened layer (d limeter of reduction in roll diameter) a hi g layer of the rollers (determined in milli or failure) for 9K2SVF steel in comparison roduction of rolls made from this type of a ndoubtedly result in a reduction of roller ich is especially important for continual f tion. Orig. art. has: 1 figure and 3 tabl	etermined i gher degree meters of n with rolls steel on oth wear per to intensification	in tons of a of utili- reduction made from her cold one of tion of
sheet-rolling produc			
sheet-rolling produc ORG: none		•	
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VAJDA, Istvan, dr.; ASZODI, Lili, dr.; HAJDU, Bela, dr.; STENSZKY, Ernone, dr.; BARZO, Pal, dr.; HORVATH, Endre, dr.

Familial relations of acquired hemolytic anemia. Magy.belorv.arch. 13 no.4:121-124 Ag '60.

1. A Hajdu-Bihar Megyei Tanacs Korhaza (Igazgato: Dr. Manyi Geza) I. sz. Belosztalyanak (Foorvos: Dr. Vajda Istvan), Megyei Verkonzervalo Allomasanak (Foorvos: Dr. Aszodi Lili) es az Orszagos Vertranszfuzios Szolgalat Kozponti Kutato Intezetenek (Igazgato: Dr. Hollan Zsuzsanna) kozlemenye. (ANEMIA, HEMOLYTIC genetics)

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APPROVED FOR RELEASE: 06/06/2000

GOLDSTEIN, Iosif; BARZOI, Maria; DAVIDOVICI, Cazimir

Considerations on the regional distribution of goods funds. Probleme econ 17 no.2:153-154 F 64.

للا الارتفاقية السيابية للسيانية المراجع الراري والم

1. Director, Intreprinderea Comertului cu Ridicata pentru Textile-Incaltaminte Petroseni, reg. Hundeoara (for Goldstein). 2. Seful Serv. Plan, Intreprinderea Comertului cu Ridicata pentru Textile-Incaltaminte Petrosani, reg. Hunedoara (for Barzoi). 3. Seful Serv. Comercial, Intrepriderea Comertului cu Ridicata pentru Textile-Incaltaminte Petroseni, reg. Hunedoara (for Davidovici).

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8/194/62/000/012/023/191 D201/D308

AUTHOR: Barzryn'sh, Ya. M.

TITLE :

16,800

Some problems of synthesis of abstract automatic devices

PERIODICAL: Referativnyy shurnal, Avtomatika i radioclektronika, no. 12, 1962, 55-56, abstract 12-2-110 yu (Uch. zap. Latv. un-t, v. 41, 1961, 52-62 (summary in Latv.))

TEXT: The algorithm of synthesis is based on describing the events which can be presented by finite automatic devices, by means of subevents. The notion of substant B (a generalization, to some extent, of the motion of a finite automatic device) is introduced, which denotes an object with a finite number $m \ge 1$ of states b_1, \ldots, b_m and a finite number $n \ge 1$ of inputs x_1, \ldots, x_n . Some pairs (x_k, b_i) have the property that under the action of x_k the substant B goes over from state b_i into state $b_i = x_k b_i$ (there exists in B a tran-Card 1/6

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8/194/62/000/012/023/101 1201/1308 Some problems of sition $x_k b_i$). The characteristic subevent b^{H} of duration M of event E, as represented in the finite automatic device A with a number of states m, is the set of all sequences belonging to the event E and having the length (number of symbols in the sequence) $l \leq M = 2m - 1$. The subsequences are themselves called characteristic subsequences. Card 2/6

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In order to synthetize an automatic device with given characteristic sequences E_1^M , ..., E_k^M and v characteristic subsequences numbered from 0 to v, a symbol S is assigned to every characteristic sequence belonging to E_j^M (j = 1, ..., k). Inductive definition of substants B_0 , B_1 , ..., B_v is introduced. The substant B_0 has one state b_0 having as its output a null set Λ . The substant B_1 is obtained from substant B_{i-1} by adding certain states and transitions. If there is no transition in B_{i-1} corresponding to the j-th characteristic sequence, then a new state b_j^1 with a null set Λ as an output is added to the set of events of B_{i-1} and a corresponding element S_{Λ} is added to the outputs of states corresponding to other sequences. The state b_i^T of the substant B_v , for which an input x_i can be shown such that the transition $x_j b_j^T$ does not exist, is called

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s/194/62/000/012/023/101 D201/D308 Some problems of a limit state. A substant B_v^* is constructed by adding to the substant B_v (in which some limit state B_i^r at a distance p from bo has been chosen) states b_1^r , $b_{1_2}^r$, ..., b_{M-p}^r with null sets \triangle as outputs, transitions $x_j b_i^r = b_{i,j}^r$ for those x_j for which transitions $x_j b_j^r$ in substant B do not exist and transitions $x_{i_1}^{b_1^r} = b_{i_2}^r, \dots, x_{i_k}$ (a = 1, 2, ..., n). For simplification the set of states of the substant B', at a distance $d \le u + 1$ ($\mu = \lfloor 1/2(M - 1])$) from the state b₀, are divided into classes R₁, R₂, ..., R_s such that the states b_i and b_j belong to the same class if and only if $b_j = b_j(\mu)$, i.e. they have the same outputs and there are the same transitions for every sequence of inputs, and the states corresponding to these transitions have the same outputs. An automatic device A, is set up with $R_1 (\alpha = 1, 2, ..., 5)$ states, $x_1, \ldots x_s$ inputs, and with a Card 4/6

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S/194/62/000/012/023/101 Some problems of ... J201/J308 representation of the set of states on itself $x_{\eta}R_{\chi} = R_{\beta}$ if and only if there exist in B' states $b_i \in \mathbb{R}_q$ and $b_i \in \mathbb{R}_\beta$ such that $x_{\gamma} b_i = b_j$. is assumed that the state R_{α} of A_{0} has the property S_{i} (i = 1, . S) if S_i is an element of its output. If b_0 belongs to the sub-set R_1 , then A_0 , in the initial state R_1 , will represent events B_1 , E2, ..., Ek by the properties of states S1, S2, ..., Sk. If the number of states of the automatic device representing given events is not known beforehand, then the number M is chosen in an arbitrary manner and it is checked whether the designed device represents the given event. Two examples of synthesis are given. The figure shows the diagram of transitions of substant By for given characteristic sub-events of events E_1 and E_2 : $B_2^S = (1, 11, 110, 110)$ 1100, 11000, 110000, 1100000, 1100000, 1100001, 11000001, 110000001). The characteristic sequences BS are denoted by symbols Card 5/6

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BARZYKIN, V.M.

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"Mechanization of the Agricultural Industry," Moscow, 1946

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9.30**.**239.6498 BARZYKIN, V M Mekhanizatsiya Sel'skokhozyay-Stvennogo Proizvoostva. (Mechanization of the Agricultural Industry)...(Uchebnik)...Moskva, Sel'khozgiz, 1948. 567 p. Illus., Diagrs. Bibliografiya: p. 559 At head of title: Uchebniki Uchebnyye Posobivc...

APPROVED FOR RELEASE: 06/06/2000



	SOV/20-120-6-29/59
AUTHORS:	Barzykin, V. V., Merzhanov, A. G. Sov/200120 A Boundary Problem in Thermal Explosion Theory (Krayevaya: sadacha
TITLE:	A Boundary Problem in Thermal Elper v teorii teplovogo vzryva) v teorii teplovogo vzryva)
PERIODICAL:	v teorii teplovogo varyte, Doklady Akademii nauk SSSR, 1958, Vol 120, Nr 6, pp 1271 - 1273 (USSR)
ABSTRACT :	Dokiady Akadom pp 1271 - 1273 (USSR) In this paper thermal explosions of substance& in the condensed phase are considered. In such processes the temperature on the phase are considered. In such processes the temperature on the boundary between the substance and the surrounding medium can boundary between the substance and the surrounding medium can ordinarily the heat exchange across the boundary is more com- Ordinarily the heat exchange across the boundary is more com- ordinarily the heat liberated in the reaction causes a combusion plicated. The heat liberated in the reaction causes a combusion of the nearest layers of the surrounding medium. Thus the temperature of the medium deviates from the temperature at infinity. This paper is a study of the critical conditions of the thermal explosion with a heat exchange as mentioned above. The respective boundary conditions are given first. The equation of steady heat conduction and the boundary conditions read as
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SOV/20-120-6-29/59 A Boundary Problem in Thermal Explosion Theory $\frac{m}{5} \frac{d\theta}{d\xi} = -\theta \theta \text{ at } \xi = 1, \left(\frac{d\theta}{d\xi}\right) = -B \theta \theta s.$ m=0 for an infinite plane parallel slab, m=1 for an infinite cylinder, and m=2 for a spherical domain. The Frank-Kamenetskiy oriterion δ is a function of the criterion Bl = $\alpha r/\lambda$ on the criterion ∂ is a function of the officerion $\beta_1 \rightarrow 0$ the problem boundary of the explosion. If Bi $\rightarrow \infty$ and $\theta_S \rightarrow 0$ the problem is reduced to that of Frank-Kamenetskiy. By varying B1 from o to 0 all possible cases of heat exchange are taken account of, from an ideal heat exchange to the case of no heat exchange (adiabatic case). The authors determine the steady temperature distribution and the critical conditions for the domains mentioned above. The case of an infinite cylindrical domain can be solved analytically all the way through. Expressions for the critical condition and for their distribution on the boundary of the explosion are given. No general integral has hitherto been found for the spherical problem. It possibly does not exist at all. The critical dependence δ (Bi) can also be determined by an approximation method within the frame work of unsteady theory. A corresponding formula is given. Card 2/3

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A Boundary Problem in Thermal Explosion Theory SOV/20-120-6-29/59 There are 3 references, 2 of which are Soviet. ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, AS USSR) PRESENTED: February 26, 1958, by V. N. Kondrat'yev, Member, Academy of Sciences, USSR SUBMITTED: February 24, 1958 1. Explosions--Analysis 2. Explosions--Heat transfer 3. Mathematics--Applications

APPROVED FOR RELEASE: 06/06/2000

<u>15159</u> s/020/63/148/002/035/037 B124/B186 Merzhanov, A. G., Barzykin, V. V., Gontkovskaya, V. T. 11. 8300 AUTHORS : Problem of focal heat explosion Akademiya nauk SSSR. Doklady, v. 148, no. 2, 1963, 380-383 TITLE: PERIODICAL: TEXT: The local heating focus causing a heat explosion is given by a N-shaped temperature profile at the initial instant of time in a spherical system of coordinates. The dimensions of the focus are assumed to be much smaller than the main mass of the substance. The initial differential equation $\partial \theta / \partial \tau = e^{\theta / (1 + \beta \theta)} + (1/\delta [(\partial^2 \theta / \partial \xi^2) + (2/\xi)(\partial \theta / \partial \xi)], 0 \le \xi < \infty, \tau \ge 0$ with the initial and boundary conditions $\tau = 0, \theta = 0$ for $\xi \le 1; \theta = -\theta_0$ for $\xi > 1$; $\theta = -\theta_0$ for $\xi = \infty$ was solved with an electronic computer. The temperature distribution was determined as a function of time and of the parameters of the system $\Theta = \Theta(\xi, \tau, \delta, \Theta_0)$. Here $\Theta = (E/RT_0^2)(T-T_0); \xi = x/r;$ $\tau = (QEk_0/cQRT_0^2)e^{-E/RT_0}; \delta = (QEr^2k_0/\lambda RT_0^2)e^{-E/RT_0}; \beta = RT_0/E$ and $_{0}^{2}(T_{0}-T_{1})$, x is the radial coordinate, t is the time, T(x,t) is $\Theta_0 = (E/RT)$ Card 1/3

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Problem of focal heat explosion s/020/63/148/002/035/037 B124/B186 the temperature, T_0 denotes the initial temperature of the focus, T_1 is the temperature of the mass of the substance at a certain distance from the focus, r is the initial radius of the focus, Q is the heat effect of the reaction, k_0 is the factor of the exponential function, E is the activation energy, λ is the heat conduction coefficient, c is the thermal capacity and ϱ is the density. β was taken to be 0.03; furthermore, $4 < \rho_0 < 25$. approximation formulas δ orit $\simeq 12.1(ln\theta_0)$ The $r_{crit} \simeq 3.48 T_0 \sqrt{(\lambda R/k_0 QE)e^{2RT} ln[(E/RT_0^2)T_0 - T_1)]^{0.3}}$ $\Theta_{\text{max-crit}} \simeq 4$ were obtained. and $\delta_{crit} \simeq 20; \tau_{crit}$ It has been found, for example, that for <u>~</u>2; $\theta_0 = 10.35 \text{ and } \delta/\delta_{\text{crit}} = 1.4 \tau/\tau_{\text{adiab}} = 1.03 \text{ where } \tau_{\text{crit}}/\tau_{\text{adiab}} = 1.63.$ The properties of the focus depend only slightly on β . The characteristics of the process are hardly influenced by the burn-out. The focal explosion is not influenced by the reactivity of the neighborhood or the fulfillment of the boundary conditions on the surface of the focus. The presence of a neighborhood capable of reaction is, however, of considerable importance in the second stage of the reaction, i.e. when a self-propagating process is Card 2/3

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BARZYKIN, V.U 81936 8/062/60/000/06/08/011 ... 🗄 B020/B061 11.5000 Dubovitskiy, F. I. Barzykin, V. V., Merzhanov, A. G. Thermal Explosion of Dinitroxydiethylnitramine Under Conditions AUTHORS: of Purely Convective Heat Transfer A TITLE: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1960, No. 6, pp.1124-1126 PERIODICAL: TEXT: A method of studying the thermal explosion of liquid and molten explosives in purely convective heat transfer has been developed. In the tests, the method previously described by the authors (Ref. 1) for determining the critical conditions of thermal explosion was used, a device for mixing the substances (Fig. 1) being used in addition. This mixer was used for examining the critical conditions of the thermal explosion of dinitroxydiethylnitramine. The experimental results were compared with data calculated from N. N. Semenov's formula (Refs. 8,9), and good agreement was noted. There are 1 figure, 1 table, and 9 references: 5 Soviet, Ň 3 Canadian, and 1 German. Card 1/2

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