DEREVYANKO, N.S., inzh.; MOYZHES, L.B., inzh.; SHELKOVICH, G.L., tekhnik

Use of a surface vibration this even during the concreting of piling. Transp. stroi. 14 no.3:50-51 Mr '64. (MIRA 17:6)

DEREVYANKO, P., kand.geograf.nauk, starshiy nauchnyy sotrudnik

Crooked methods. NTO 3 no.9:28-30 S '61. (MIRA 14:8)

1. Energeticheskiy institut imeni G.M. Krzhizhanovskogo. (Electric power plants--Costs)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-F

CIA-RDP86-00513R00031021

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DEREVYANKO, P., MIKHEYEV, A., smennyy shturman What kind of harbor tugboats should we have? Mor. flot 23 no.4: 30-32 Ap '63. (MIRA 16:5) 1. Nachal'nik Odesskogo portovogo flota (for Derevyanko). 2. Morskoy buksir "Sarych" (for Mikheyev). (Harbors) -(Tugboats)

2

CIA-RDP86-00513R00031021

DEREVYANKO, P.; MIKHEYEV, A., amonnyy shturman Modernize fueling stations in harbors. Mor. flot 23 no. 12: 16-17 D '63. (MIRA 17:5) 1. Nachal'nik Odesskogo portovogo flota (for Derevyanko), 2. Portovoy buksir "TSiklon", Odessa (for Mikheyev). · . ۰., t <u>.</u> **A** ŧ ٠

CIA-RDP86-00513R00031021

DEREVYANKO, P.H.

AVRAAMOVA, A.A.; ALAMPIYEV, P.N.; BADIR'YAN, G.G.; BORODIN, I.A.; VASYUTIN, V.F.; GUBER, A.A.; GURARI, Ye.L.; DANILOV, A.D.; DEREVYANKO, P.A.; YELSUKOV, M.P.; KOLOSKOV, P.I.; LAPTEV, I.D.; LEONT'IEV, N.F.; PECHNI-KOV, A.M.; PROKHOROV, A.I.; RUDENKO, N.A.; CHERDANTSEV, G.N.; YAKIMOV, A.T.

P.V.Pogorel'skii; Obituary. Izv.AN SSSR. Ser.geog. no.3:94-95 My-Je (MIRA 8:9) (Pogorel'skii, P.V., 1399-1955)

DEREVYANNO, P.A.; Prinimal uchastive: SEMENCV, A.A., inzh.

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Consideration of the diversification of expenditures and problems  $c_1$  their distribution in the determination of the economic effectivemess of water resource developments. Frobl. gidroenerg. i reg. rech. stoka no.11:90-98 163. (MIRA 18:3)

DEREVYANKO, Pavel Andreyevich; POGOREL'SKIY, P.V.,[deceased], doktor ekon. nauk, otv. red.; KUNIN, V.N., doktor geogr. nauk; FILIPPOVA, B.S., red. izd-va; NOVICHKOVA, N.D., tekhn, red.

[Rural water supply in the Mongolian People's Republic] Sel'skokhoziaistvennoe vodosnabzhenie Mongol'skoi Narodnoi Republiki. Izd-vo Akad. nauk SSSR, 1959. 130 p. (Akademiia nauk SSSR. Laboratoriia gidrogeologicheskikh problem. Trudy, vol.21) (MIRA 12:12)

(Mongolia---Water supply, Rural)

DEREVIANKO, Pavel Andreyovich

[Rural water supply of the Mongolian Pecple's Republic] Sel'skokhoziaistvennoe vodcsnabzhenie Mongol'skoi Narodnoi Respubliki. Moskva, Isd-vo Akad.nauk SSSR, 1959. 130 p. (MIRA 14:2)

(Mongolia---Water supply, Rural)

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JIRIVA		6		1
<u>L 47335-65</u> EWT (m)/FF ACCESSION NR: AP5006	F(::)/T/ENP(t.)/ENP(b) Pr-4	8/0065/65/000/002/0	39	
Kulinich, G. H.; Miro Derevyanko, P. I.; Sm	nov, A. A.; Kirillov, T. S.; Pa imova, S. G.	iu, G. H.; Anipin, H. F	<b>B</b>	
using an industrial u			27	
	khnologiya topliv i masel, no.			
ABSTRACT: Prolonged tion unit which remov Bashkir Scientific Research	rification, diemel fuel, hydro operation of the UNPZ 24-5 "Or es water from petroleum verifi <u>search institute of the Chemic</u> nstitute of the Chemical Indus	der of Lenin" water pu ed the recommendations a <u>l Industry</u> and the <u>Al</u> try on the possibility	of the <u>1-Union</u> of <b>re-</b>	
ducing hydrogen consu removing water from d	mption. The average annual hy irectly distilled and redistil a pressure of 28-36 $at$ amount Lowering the pressure in the r	drogen consumption for lud diesel fuel at a r ed to 0.46, or less th	actor an planned	
Card 1/2			- 1	
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catalyst from subsequent read sulfur compounds below 50% or raw material per cubic meter cation of 2300 tons of raw ma 2 figures, 1 table.	generation period for open first reactor catalyst de- ctors. A depth of purific ccurs in the first reactor of catalyst and in the se aterial per cubic meter of	ation of the catalyst was 8 creases more quickly than the ation of raw materials of after processing 1200 tons of cond reactor upon the purifi-
ASSOCIATION: <u>BashNXI.</u> Orden.	ENCL: 00	SUB CODE: GC. OC
NO REF SOV: 005	OTHER: 000	

DEREVYANKO, P.M., polkovnik; YAROVIKOV, V.S., red.

[Problems of the revolution in military affairs] Problemy revoliutsii v voennom dele; sbornik statei. Moskva, Voenizdat, 1965. 193 p. (MIRA 18:3)

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00031021

TSYPKIN, V.S.; OKINSHEVICH, A. Ye.; OMEL'YANOVICH, V.M.; SKLYAR, F.T.; DEREVYANKO, P.P.; GERMAN, P.L.

Review of the book "Geological and industrial evaluation of coal deposits". Ugol' 39 no.6:76 (MIRA 17:7)

 Vsesoyuznyy tsentral'nyy gosudarstvennyy institut po proyektirovaniyu i tekhniko-ekonomicheskim obosnovaniyam razvitiya ugol'noy promyshlemosti (for TSypkin, Okinshevich).
 Glavnyy geolog kombinata Donets ugol' (for Omel'yanovich).
 Nachal'nik Krasnogvardayskoy GR. tresta shakhtnoy geologii Donetskogo soveta narodnogo khozyaystva (for Sklyar). 4. Nachal'nik Makeyevskogo upravleniya tresta shakhtnoy geologii Donetskogo soveta narodnogo Khozyaystva (for Derevyanko).
 Nachal'nik Froletarskoy GRP tresta shakhtnoy geologii Donetskogo soveta narodnogo khozyaystva (for Derevyanko).

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021

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Country Category	: USSR : Diseases of Farm Animals. General Problems. : EZBiol., No. 4, 1959, No. 16782
Author Institut. Title Orig Tub.	Derevvanko, P. S. Riev Veterinary Institute. Tissue Changes in the Wound Canal after Arthro- tony of the Horse's Hoof Joint Performed through the Hoof Bone and Its Joint Cartilage Tr. Elyevsk. vat. 12-1, 1957, 13, 237-246
The force	When studying histological specimens of tissue taken from the wound canal which were prepared at various intervals between the 7th and 240th days after arthrotomy, 1t was shown that the wound canal (I), the defect in the joint's cartilage (II), and the defect of the skin base in the wall of the hoof bone (III) were replaced by newly formed connective tissue. In I, close to the surface of the joint the latter becomes impregnated with lime salts after a
Cará:	1./2

ACC. NR: AP6029916	(A)	SOURCE CODE: UR/	0413/66/000/015/0088/008
AUTHORS: Sichko, P	. V.; Sarancha, Ye	T.; Pakhomova, L. S.	Derevyanko, R. Sh.
ORG: none	m obtaining a subi	fied carbanido resin.	()
SOURCE: Izobret pro	-		01888 59, 10, 104440
TOFIC TACS: resin,			.•
banide resin by tre	ating carbamide real is modified with a	in with aldehyde. To	taining a modified car- increase its r <u>esistance</u> medium of acetic acid.
Y	M DATE: 12Apr65		
SUH CODE: 11/ SUB			
SUH CODE: 11/ SUB	·		
SUR CODE: 11/ SUB		-	
SUH CODE: 11/ SUB	•		

ANYUKHIN, B.M.; DEREVYANKO, R. Sh. [Derevianko, R. Sh.]

TH

Use of furfuramide in plant growing. Khim. prom. [Ukr.] no.18 82-83 Ja-Mr<sup>1</sup>63 (MIRA 1787)

1. Upravleniye khimicheskoy promyshlennosti Donetskogo soveta narodnogo khozyaystva.

	UDSR N
Category	COULEPACTED PLANTS, POTAYOES, Venetables. Cucurbits.
Nos. Jruz.	:Lar 2HUR-BIOL.,21,1958,N0-95004
Author Institut. Ettle	: Vlasyuk, P.A.; Derev'yarko, S.T. AS Ukrainian "SR The Effects of Different Forms of Potessium Fer- tilizers on the Physiologico-Biochemical Processes Vield and Quality of Tomatous and Potetoes Grown* Visnik AN URSR, 1957, No.9, 42-52
orig. In.	WISELK AN UNDER, 1997, 1997, 1997
Abstract	: In tests conducted with the mid-season maturing Krasnodarets variety temato and Lorkh potato under irrigation, an investigation has been made of the activity of ferments and respiration, the accumulation of ascorbic acid, sugar and chloro- phyll, the change in moisture, as well as the Cl, 5 and K contents. Ke and potassium-magnesium increased the vitamin 3 and dry matter content in tomato fruits from 4.8-5.0 (in the control) to
- - 1	* Under Irrigation
Card:	1/3

CIA-RDP86-00513R00031021

"APPROVED FOR RELEASE: Thursday, July 27, 2000

М Country : Category CULTIVATED PLANTS, POTATOES, Abs. Jour. : REF ZHUR-BIOL., 21, 1958, NO-96004 Anthora : lastitut. 1 Litle : Orig. Pub. : Abstract : 5.4-5.8. All forms of K reduced the acidity of the fruit and favorably affected the water balance in the plants. The synthesis of chlorophyll in the tomato leaves and potato leaves increased only with the application of potesh-megnesium and Ko. The latter produced the optimum respiration rate in the potato leaves. Potassium fertilization did not show any effect on a number of biochemical processes. Tomato yield booats of 28.9, 26.8, and 18.2 cwt/ha. were obtained over the 226.2 of the 2/3 Card:

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Country.	:	
Category	CULTIVATED PLANTS. POTATOES	
Abs. Jour.	:REF_2HUR-BIOL.,21,1958,ND-95004	
Author	:	
Institut. Title		
Orig. Tip.	:	
Abstract	control from respective applications of Ko, por	tash
	magnesium, $K_{X}$ ; on the potatoes too the very weakest effect was potten from $K_{X}$ V.V. Prokosl	hov
Card:	3/3	
l situ.		

DEREVYANKO, S.N.

Result of treating initial forms of cancer of the cervix uteri; data from the Tambov Province Oncological Dispensary. Vop. onk. 6 no. 8:90-93 Ag '60. (MIRA 14:1) (UTERUS-CANCER)

а Ц.

DEREVYANKO, S.N., inzh.; KHOLODOV, A.M., kand.tekhn.nauk

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Automation of the operation of scrapers and bulldozers. Makh. stroi. 19 no.6:5-7 Je '52. (MIRA 17:2)

DEREVYANKO, S.N., Inzh.; PLEKHOTKIN, V.P., inzh.

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Γ

Automatic control of bulldozers' and scrapers' digging. Stroi. i dor. mash. 9 no.9:12-15 S '64. (MIRA 17:11)

1

COUNTRY CATEGORY	: USSR - I PLANT PHYSIOLOGY. Photosynthesis.
ABS. JOUR.	REF ZHUR - BIOLOGIYA, NO. 4, 1959, No. 15251
AUTHOR INST. TITLE	<ul> <li>Brandt, A.B.; Derevyanko, V.G.; Pavlova, I.P.*</li> <li>Not given</li> <li>Significance of Different Intensity and Spectral Composition of Light for Pigment Formation by Plants.</li> </ul>
ORIG. FUB.	: Biofizika, 1957, 2, No.6, 649-660
I.PSTRACT	The property of pigment accretion (chloro- phyll and carotenoids) in relation to the in- tensity and spectral composition of light was studied in leaves of grains, cucumbers, horsebeans, radishes, and lettuce. With low intensity exposure the pigment accumulated more rapidly in the red zone of the spectrum, and with high intensity in the blue zone. Young leaves contained more pigment and in a more labile form than old ones. The reaction
CARD:	* Tagayeva, S.V. 1/2

DEREVYANKO, V. G., TAGAEYEVA, S. V., BRANDT, A. B.

Inst. of Biophysics, Academy of Sciences, Moscow.

"The peculiarities of the leaves' optical properties."

paper submitted for the Third Intl. Congress on Photobiology, Copenhagen, 31 July - 5 August 1960.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00031021

AU HOR: Derevyanko, Ye. (Lieutenant colonel of siviation service, Candidate of bio- logical sciences?; Ruznetsov, V. (Major of medical service, Physician, Aviator); 4vl'nikov, V. (Major of medical service, Physician, Aviator) 72 CIPLE: Better flight simulation in trainers 73 CONRCE: Aviatsiya i kosmonavtika, no. 3, 1965, 37.40 74 CONRCE: Aviatsiya i kosmonavtika, no. 3, 1965, 37.40 75 CONRCE: flight simulation, pilot training 71 ght and in flight simulators. They state that after training exercises involving 75 misual circumstances and instrument failures are performed on flight simulators, 76 the quantity of wrong decisions is decreased by 40 to 50% after three or four ses- sions. The authors advocate the use of special training to improve pilot psycho- physiological reserve. This reserve can be evaluated in simulators by increasing 76 the number of instruments to which the pilot must react. It is suggested that a 77 Signal by pressing a corresponding button located in the engine-control sector. 76 or a correct reaction, the first light goes out and the next light goes on auto-	L 41311-65 C ESEION NR: AP5008726	<b>6/0209/65/000/003/0037/0040</b>
COURCE: Aviatsiya i kosmonavtika, no. 3, 1965, 37.40 COURCE: Aviatsiya i kosmonavtika, no. 3, 1965, 37.40 DOPIC TAGS: flight simulation, pilot training absTRA(T: The authors review common and frequent pilot errors committed both during flight and in flight simulators. They state that after training exercises involving misual circumstances and instrument failures are performed on flight simulators, the quantity of wrong decisions is decreased by 40 to 50% after three or four ses- sions. The authors advocate the use of special training to improve pilot psycho- physiological reserve. This reserve can be evaluated in simulators by increasing the number of instruments to which the pilot must react. It is suggested that a light board be mounted in the instrument panel and that the pilot react to a light signal by pressing a corresponding button located in the engine-control sector.	orical sciences, huznetsov, V. (Majo	r of medical service, Physician, Aviator);
TOPIC TAGS: flight simulation, pilot training ABSTRACT: The authors review common and frequent pilot errors committed both during misual circumstances and instrument failures are performed on flight simulators, the quantity of wrong decisions is decreased by 10 to 50% after three or four ses- sions. The authors advocate the use of special training to improve pilot psycho- ohysiological reserve. This reserve can be evaluated in simulators by increasing the number of instruments to which the pilot must react. It is suggested that a light board be mounted in the instrument panel and that the pilot react to a light signal by pressing a corresponding button located in the engine-control sector.	I'LE: Better flight simulation in tr	ainers $\mathcal{B}$
ABSTRACT: The authors review common and frequent pilot errors committed both during right and in flight simulators. They state that after training exercises involving musual circumstances and instrument failures are performed on flight simulators, the quantity of wrong decisions is decreased by 10 to 50% after three or four ses- sions. The authors advocate the use of special training to improve pilot psycho- physiological reserve. This reserve can be evaluated in simulators by increasing the number of instruments to which the pilot must react. It is suggested that a light board be mounted in the instrument panel and that the pilot react to a light signal by pressing a corresponding button located in the engine-control sector.	OFRCE: Aviatsiya i kosmonavtika, no.	3, 1965, 37.40
rlight and in flight simulators. They state that after training exercises involving misual circumstances and instrument failures are performed on flight simulators, the quantity of wrong decisions is decreased by 40 to 50% after three or four ses- sions. The authors advocate the use of special training to improve pilot psycho- physiological reserve. This reserve can be evaluated in simulators by increasing the number of instruments to which the pilot must react. It is suggested that a light board be mounted in the instrument panel and that the pilot react to a light signal by pressing a corresponding button located in the engine-control sector.	OPIC TAGS: flight simulation, pilot	training
	light and in flight simulators. They misual circumstances and instrument f he quantity of wrong decisions is dec ions. The authors advocate the use o hysiological reserve. This reserve c he number of instruments to which the	state that after training exercises involving ailures are performed on flight simulators, reased by 10 to 50% after three or four ses- if special training to improve pilot psycho- an be evaluated in simulators by increasing pilot must react. It is suggested that a

"APPROVED FOR RELEASE: Thursday, July 27, 2000

Ser marine

CIA-RDP86-00513R00031021



TAGEYEVA, S.V.; BRANDT, A.B.; DEREVYANKO, V.G.

Variations in the optical properties of leaves during vegetation. Dokl. AN SSSR 135 no.5:1270-1273 D '60. (MIRA 13:12)

(Leaves--optical properties) (Bird (Linden)

SOV/86-58-7-17/38 Derevyanko, Ye. A., Lt Col THOR: A Fighter Pilot Takes the Initial Position for فالمتحظ فستعلم فأجاله أعليهما والأرادي والمراجع an Attack (Letchik-istrebitel zanimayet iskhodnoye polo-zheniye diya ataki) TEI Vestnik vozdushnogo flota, 1958, Nr 7, pp 36-38 (USSR) RIODICAL: The article describes flights organized for the purpose of finding out how accurately fighter pilots take their STRACT: initial poisition for an attack in relation to the aerial target. Photos taken from an I1-28 aircraft flying at a higher altitude than the fighter-plane and the aerial target showed that in most cases the pilots made great errors in estimating the proper interval between the initial point of attack and the target. The author suggests that pilots should be more intensively trained in the art of maneuvering into the initial position for an attack. To check the execution of this maneuver by the pilots, the aerial gunner of the bomberrd 1/2

Fighter Pilot Takes the Initial (Cont.)

sov/86-58-7-17/38

target should be equipped with a small optical range finder. Each time the fighter pilot reports by radio that he has maneuvered into the initial position for an attack, the aerial gunner reports back to the pilot the readings taken from the range finder. Thus the fighter pilot can immediately estimate the correctness of his maneuver. One diagram.

and 2/2

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DEREVYANKO, Ye.A., mayor med.sluzhby, kand.biol.nauk

Dynamics of the development of fatigue in flying personnel during flight. Voen-med.shur. no.11:78-79 N '57. (MIRA 11:4) (FATIGUE) (AVIATION MEDICENE)

## DEREVYANKO, Ye.A.

415

Interrelationship between simultaneously developing conditioned motor and verbal-motor (verbal) reactions [with summary in English]. Biul.eksp.biol.i med. 43 no.1:7-10 Ja '57. (MIRA 10:8)

1. Iz Instituta aviatsionnoy meditsiny, Moskva; Predstavlena deystvitel'nym chlenom AMN SSSR N.A.Rouhanskim. (REFLEX, CONDITIONED, interrelationship between simultaneous motor & verbal

reflexes (Rug))

DEREVYANKO, Ye.A. (Moskva); MYL'NIKOV, V.G. (Moskva)

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مورد بدن ببر

Some patterns of the appearnace of acceleration sensations during the acceleratory changes of gravity. Vop. psikhol. 10 no.3:131-139 My-Je '64. (MIRA 17:9)

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ACC NR: AP7000138	SOURCE CODE: UR/0177/66/	/000/011/0050/0054
	Lieutenant Colonel of Administrative etsov, V. G. (Major Medical Services)	
ORG: None		
TITLE: Experimental study of	spațial illusion during flight	
SOURCE: Voyenno-meditsinskiy	zhurnal, no. 11, 1966, 50-54	
-	nt, space biologic experiment, human earch aircraft, transport aircraft	ailment, human
when flying on instruments. to this phenomenon are of gre understanding them can preven are cited as sources for desc illusions. But it is acknowl	s one of the factors complicating the The causes, conditions and mechanisms at theoretical and practical interest tive measures be taken. B. A. Yakube riptions of the nature and symptoms of edged that experimental data on the ons arise, other than the word of pi	s which give rise t since only by ov and A. A. Vorona of spatial concrete circum-
lacking. Present research wi sensations of the illusions,	and indicate some raths to be follow auses. Research has been conducted a	n some of the ed during further
Card 1/2	UDC: 616.89-008.42-0	

## ACC NR: AP7000138

equipped recording devices installed in TU-104 aircraft. The K-12-21 oscillograph, used in conjunction with MP-69, TsGV, and DUS-3 sensors records physical parameters for overload, bank, and angular speed of the aircraft heading into a bank and emerging from it, and glide. Eleven command pilots and co-pilots, as well as six non-flying personnel participated in the research. The manner in which the research was conducted is described. The results obtained indicated that distinction could be made between three types of illusions: prolonged bank, reverse bank, and cyclical illusions, all of which are characterized by descriptions of the sensations experienced. It is concluded that, apart from internal factors involving the central nervous system, acceleration is a major factor in causing illusions. But the analysis of the indications of the three types notes that they were registered in the absence of optical information on spatial conditions. Orig. art. has: 3 figures. SUB CODE: 22, 01, 22/ SUBM DATE: none

## Cord 2/2

YELOWKOV, Kuriy Ivanovich; PROKHOROV, Boris Fedorovich; DERHVYANKO, Yn.G., nauchnyy red.; KAZAROV, Yu.S., red.; 2SAL, P.K., tekhn. red.

> [Corrugated materials for shipbuilding] Sudovye gofrirovannye konstruktsii. Leningrad, Gos. solusnoe izd-vo sudostroit. promyshl., 1958. 95 p. (NNRA 11:10)

(Shipbuilding)

AUTHOR:	SOV-135-58-3-4/19 Derevyanko, Yu.G., Candidate of Technical Sciences
TITLE:	Automation of Welding Processes in Shipbuilding (Avtomatizateiya svarochnykh protsessov v sudostroyenii)
PERIODICAL:	Svarochnoye proizvodstvo, 1958, Nr 3, pp 12-17 (USSR)
ABSTRACT:	Information is presented on new technology and equipment for flux welding in shipbuilding developed by engineers M.R. Shrayerman, N.M. Nikitinykh and M.M. Matsov, along with engineers from TsNII MSP, the Britic, the Admiralteyskiy and other plants. Descriptions and illustrations of the following equipment are given: 1) welding stands with flux cushions for welding sheet structures; "STS-1" welding assembling automatic device (Figure 3) for assembling parts up to 1 m height; 2) "ASU-138" and "DASU-138" automatic machines for welding angular seams (Figures 4a,b) designed at TsNII MSP with the perticipation of Engineer L.M. Myshkovskiy; 3) "ASU-138" and "PSh-5" semi-eutomatic devices for separate assembling and welding of longitudinal and transverse parts; 4) a "rocking bed" (Figure 7) for welding forward and aft bottom sections; 5) a portable flux-exhauster (Figure 8) designed under the supervision of Engineer Ye.L. Simkin. Engineers V.F. Zabotin,
Card 1/2	A.A. Vychegzhanin and B.A. Mironov, from the Kherson Plant,

Automation of Welding Processes in Shipbuilding

SOV-135-58-3-4/19

participated in developing semi-automatic welding sheets of moderate thickness in gas shields. Engineers A.I. Safonov, L.B. Tonkonogov, B.G. Yungel'son and V.P. Sashchenko, from the Plant imeni Nosenko, participated in developing the electricslag welding process for the production of large size ship parts. Recommendations for further development of automatic welding in shipbuilding are given. There are 2 tables, 12 photos, 1 graph and 1 drawing.

ASSOCIATION: TSNII MSP

1. Welding--Equipment 2. Welding--Control 3. Ships--Construction

Card 2/2
. 1

CIA-RDP86-00513R00031021

BALAYEV, D.N.; BEZUKLADOV, V.F.; DEREVYANKO, Yu.G.; IOFFE, A.F.; ISAKOV, I.S.; MATTES, N.V.; MOISEYEV, A.A.; NEGANOV, V.I.; NOVOZHILOV, V.V.; PAVLENKO, G.Ye.; PERSHIN, V.I.; POPOV, V.F.; HETIVOY, V.S.

> Seventy-fifth birthday of Academician IUlian Aleksandrovich Shimanskii. Sudostroenie 24 no.12:66-67 D'58. (MIRA 12:2)

(Shimanskii, IUlian Aleksandrovich, 1883-)

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DEREVYANKO, Yu.G., kand.tekhn.nauk Foreword. Trudy NTO sud.prom. 8 no.3:4 '59. (MIRA 13:5) (Shipbuilding)

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APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00031021(

BUTOMA, B.Ye.; YEGOROV, M.Ye.; DEREVYANKO, Yu.G.; KHABAKHPASHEV, A.A.; BAKAYEV, V.G.; ISHKOV, A.A.; KOLFSNICHENKO, N.S.; KAMENTSEV, V.M.; GORSHKOV, S.G.; KASATONOV, M.A.; ISHCHENKOV, N.V.; AFANAS'YEV, S.A.; TITOV, G.A.; LARIONOV, M.F.

> Boris Evgen'evich Klopotov; obituary. Sudostroenie 30 no.ll:81 '64. (MIRA 18:3)

<b>K</b> (1997)	88685
12 7tc0	S/137/61/000/001/019/043 A006/A001
Translation fr	rom: Referativnyy zhurnal, Metallurgiya, 1961, No. 1, pp. 33 - 34,
# 1D288	Therewannykh, A.P., Andreyeva,
AUTHORS:	Lokshin, F.L., Lyutsedarskiy, V.A., Derevyannykh, A.P., Andreyeva, O.I.
TITLE:	The Effect of Hydraulic Impacts of Ultrasonic Frequency on the Struc- ture of Quenched Alloys
PERIODICAL:	"Tr. Novocherk. politekhn. in-ta", 1959, No. 73, Raboty Kafedry fiz. pp. 81 - 95
(Kh18N9) and analysis. A quency hydrau	The effect of hydraulic ultrasonic-frequency impacts on the struc- estigated on $[J_1]$ (D1) type alloys (3.8% Cu, 1.4% Mg), and $[X18]$ 9 [Y12 (U12) steel by measuring the hardness and by roentgenostructural description is made of a device for the excitation of ultrasonic-fre- ulic impacts. All the investigations were made at a frequency of 500- les. The specimens investigated were after quenching subjected to pacts of ultrasonic frequency in a water bath. It was found that as

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S/137/61/000/001/019/043 A006/A001

The Effect of Hydraulic Impacts of Ultrasonic Frequency on the Structure of Quenched Alloys

a result of hydraulic impacts of ultrasonic frequency, the aging process of duraluminum alloys was considerably accelerated; limit hardness values in time are obtained earlier than during artificial or natural aging. After the effect of hydraulic impacts of ultrasonic frequency on the quenched alloys, processes in the alloys take place which are analogous to processes during tempering. In practice, the use of hydraulic impacts of ultrasonic frequency during heat treatment of ateel, reduces the probability of crack formation and assures the formation of tempering structures within a shorter time interval. When subjecting steel to hydraulic impacts of ultrasonic frequency, structural changes of the same nature as in cold treatment, may be expected. There are 26 references.

A. B.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

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"APPROVED FOR RELEASE: Thursday, July 27, 2000

1063, 1155, 1162

CIA-RDP86-00513R00031021

• • • • • 20373 \$/058/61/000/003/016/027 A001/A001 Translation from: Referativnyy zhurnal, Fizika, 1961, No. 3, p. 323, # 3E338

Lokshin, F. L., Lyutsedarskiy, V. A., Derevyannykh, A. P., Andreyeva, AUTHORS: 0. I. The Effect of Ultrasonic-Frequency Hydraulic Impacts on the Structure TITLE: of Hardened Alloys

"Tr. Novocherk. politekhn. in-ta", 1959, Vol. 73, "Raboty Kafedry PERIODICAL: fiz.", pp. 81-95

Treatment of A-1 (D-1) Duralmin by hydraulic impacts of ultrasonic TEXT: frequency results in a considerable acceleration of the aging process: after treatment by hydraulic impacts for 3 min the same hardness is obtained as after artificial aging for 30 min or after natural aging during 6.5 - 7 hours. An X-ray examination showed that under the action of hydraulic impacts the grains become finer, texture appears and the lines of roentgenograms are widening. In X18H9 (Kh18N9) steel (18% Cr, 8% Ni) with the martensite point -60°C the treatment by hydraulic impacts results in the formation of martensite at room tempera-

Card 1/2

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 C

CIA-RDP86-00513R00031021

20373 S/058/61/000/003/016/027 A001/A001 The Effect of Ultrasonic-Frequency Hydraulic Impacts on the Structure of Hardened Alloys ture; thereby hardness increases from 87 to 88.5 Rb. In 912 (U12) steel hardened from 1,000°C in water and having 15 - 20% residual austenite, hydraulic impact treatment for 5 min leads to decomposition of residual austenite, decrease of hardness from 64 to 62 Rc and narrowing of martensite lines. This indicates the occurrence of the annealing process during the treatment by hydraulic impacts. E. Estrin Translator's note: This is the full translation of the original Russian abstract,

Card 2/2

DEREVYANNIKH A.P. 27372 S/194/61/000/003/038/046 1.1730 D201/D306 AUTHORS: Lokshin, F.L., Lyutsedarskiy, V.A., Dyerevyannykh, A.P. and Andreyeva, O.I. TITLE: The effect of ultrasonic frequency hydraulic shocks on the structure of hardened alloys PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika no. 3, 1961, 19, abstract 3 El34 (Tr. Novocherk. politekhn. in-ta, 1959, 73, Raboty Kafedry fiz., 81-95) TEXT: Structural changes are investigated in hardened steels and aluminum alloys as resulting from their processing by hydraulic shocks at ultrasonic frequencies (500-600 Kc/s). It is explained that under the effect of hydraulic shocks, processes arise in alloys similar to those in annealing. The duration of these processes is much shorter than that in normal ageing and annealing. It is possible to put into practical use the effect of hydraulic shocks in Card 1/2

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The effect of ultrasonic frequency ....

27372 S/194/61/000/003/038/046 D201/D306

thermal processing of duraluminum (the processing time is shortened and a higher degree of hardness is obtained) and of steel (the possibility of cracks occurring is reduced, the annealed structure is obtained in a shorter time). The schematic of the installation is given. The results of the experiments are presented in the form of a table, graph and X-ray photographs. 14 figures. 26 references. [ Abstracter's note: Complete translation]

Card 2/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000

. 1

CIA-RDP86-00513R00031021

L 52054-65 EWT(m)/EWA(d)/P/EWP(t)/EWP(k)/	EWP(z)/EWP(b)/EWA(c) Pf-4
NJW/JI/IW ACCESSION NR: AR5006387	s/0137/64/000/012/1062/1062 34
Spurce: Ref. zh. Metallurgiya, Abs. 121408	34 33 Bauteora A. P. B
AUTHOR: Lokshin, F. L.; Dereyannykh, A. P.:	Pertseva, A. P.
TITLE: Influence of impact thermomechanical austenite	uenching on the quantity of residual
CITER SOURCE: Sb. Metallovedeniye i term. obr 1964, 130-134	abotka. M., Mashinostroyeniye,
TOPIC TAGS: metallurgy, ferrous matals, metal	
TRANSLATION: Impact thermomechanical quenchin sustenite formation temperature and continuous load was communicated for the metal through a U12AV ShiCh9) and ShKh15 Steels were studied. I	coolant by spark discharge. <u>U10A</u> , ft
these steels was conducted under the following water; U12A, from 950° in water; ShKh9, from 8 1000° in oil. X-ray analysis established that	uno in oil: ShKhla, from 840° and
Cord 1/2	

5205465 CESSION NR: AR5006367		
TOLOTON NY : ANDUDICA		ji Nga
	conversion of austenite to martensite than ordinary	-
	Impact thermomechanical quenching were found under which	
	Formed. For steel ShKh9, impact thermomechanical quench-	
	ed (discharge vo.tage 60 kv, capacity of the condenser	
	20 seconds). There is no residual austenite. Under some enching conditions complete conversion of austenite to	
	lace, in such a case the residual austenite is less stable	
	ordinary methods: in ShKh9 steel quenched from 840° with-	
n in steel tempered by c impact, there is 12% re	ordinary methods: in ShKh9 steel quenched from 840° with- esidual austenite. After annealing at 150° and 200°, the	
n in steel tempered by c impact, there is 12% re idual austenite was stil	ordinary methods: in ShKh9 steel quenched from 840° with- esidual austenite. After annealing at 150° and 200°, the 11 retained; it was removed only after annealing at 250°.	
n in steel tempered by o impact, there is 12% re idual austenite was stil er impact thermomechanic	ordinary methods: in ShKh9 steel quenched from 840° with- esidual austenite. After annealing at 150° and 200°, the L1 retained; it was removed only after annealing at 250°. Cal quenching (840°, 60 kv, 0.24 µf 14 seconds) ShKh9	
m in steel tempered by o impact, there is 12% re idual austenite was stil er impact thermomechanic el contains 8% residual	ordinary methods: in ShKh9 steel quenched from 840° with- esidual austenite. After annealing at 150° and 200°, the L1 retained; it was removed only after annealing at 250°. cal quenching (840°, 60 kv, 0.24 µf 14 seconds) ShKh9 austerite which is completely removed by annealing for	
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PAPUSHIN, L.L.; DEREVYANSKIY, V.M.

1.

Increasing the output capacity of vacuum filters by precoagulation of the charge. Koks i khim. no.16:16-17 '61. (MIRA 15:2) 1. Opornaya laboratoriya Donetskogo sovnarkhoza.

(Coal preparation plants-Equipment and supplies) (Filters and filtration)

DEREVYANSKIY, V.M.; PAPUSHIN, L.L.; BOCHAROV, N.G.

Comparison indices for the performance of airlift, ejector, and mechanical flotation machines. Koks i khim. no.2:17-19 '63. (MIRA 16:2)

1. Yasinovskiy koksokhimicheskiy zavod. (Flotation-Equipment and supplies)

BEREUYABHAIN, A.F.

KOYRE, V.Ye., inzh.; DEREVYASHKIN, A.F., inzh. Finish machining on planers. Mashinostroitel' no.1:21-22 Ja '58. (Planing machines---Attachments) (MIRA 11:1)

DEFINITSMANA, V.

L. Verechtshagin, <u>V. Derovytskava</u>, S. Rogovin

"Investigation of the Polymerization Process of Methylmethacrylate under Ultrahigh Pressure." Journal for Physical Chemistry, <u>21</u>, pp. 233-40, February 1947, Moscow Academy of Sciences, Institute for Organic Chemistry, Laboratory for Ultra-High Pressures and Textile-Institute, Department of Synthetic Fibers.

ADSTRACT AVAILABLE

D-50054

DEREZA, A.S., inzh.

St Hammer and a stranger

All-Union conference on electric painting and heat-radiation drying. Vest. mash. 38 no.9:83 S '58. (MIRA 11:10) (Painting, Industrial) (Drying)

1. 35566-65 EWT(1)/FCO	你们也是她的这些你是你是我们是你的事情。""你们,我们	
ACCESSION NR: AP500813	8. Sec. 19	0285/65/000/005/0014
AUTHORS: Dereza, L. K.		8
TITLE: A filter for pu	titying air from fog. Class 12	, No. 168643
SOURCE: Byulleten' izo	breteniy i lovarnykh znakov, no	. 5, 1965, 14
TOPIC TACS: air filter	fog	
ABSTRACT: This Author consisting of a housing the efficiency and degr corrugations that suppo To produce a gradient o serts aro made with the the corrugation.	Certificate presents a filter f and a filtering element fasten te of purification, the housing t. the filtering element by mea t capillary potential in the fi acute angle of the wedge less	ed to a frame. To increase is made with wedge-like ns of wedge-like inserts. lter, the wedge-like in-
ABSTRACT: This Author consisting of a housing the efficiency and degr corrugations that suppo To produce a gradient o serts are made with the	Gertificate presents a filter f and a filtering element fasten be of purification, the housing t. the filtering element by mea t capillary potential in the fi	ed to a frame. To increase is made with wedge-like ns of wedge-like inserts. lter, the wedge-like in-
ABSTRACT: This Author consisting of a kousing the efficiency and degr corrugations that suppo To produce a gradient of serts are made with the the corrugation.	Gertificate presents a filter f and a filtering element fasten be of purification, the housing t. the filtering element by mea t capillary potential in the fi	ed to a frame. To increase is made with wedge-like ns of wedge-like inserts. lter, the wedge-like in-

DEREZA, M.

كالالتقار بتنبيها

الكرار بالكركية المتراجع التراوي

Airplane weighing one gram. Znan. ta pratsia no.2:29-30 F '63. (MIRA 16:4)

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(Airplanes-Models)

CIA-RDP86-00513R00031021

DEREZHIAN,A.; KRUSTEVA,E.

11

Effect of intravenous anesthesia on arterial pressure. Khirurgiia, Sofia 13 no.2-3:274-275 '60.

1. Iz Katedrata po bolnichna khirurgija pri ISUL. (BLOOD PRESSURE) (ANESTHESIA INTRAVENCUS)

CIA-RDP86-00513R00031021

DEREZHINA, A.; KRUSTEVA, E.

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Our experiences with decurarizing effects of nivaline. Khirurgiia, Sofia 13 no.2-3:272-274 '60.

1. Iz Katedrata po bolnichna khirurgi.ia pri ISUL. (AUTONOMIC DRUGS) (CURARE antag.)

DEDETWINSKIY		
AUTHOR:	$R \not E \not Z \mapsto K \land \forall$ Moshnin, E.N., Candidate of Technical Sciences and Derezhkovskiy, D.I., Engineer. 129-4-7/17	
TITIE :	Mechanical properties of steels at high temperatures and various schemes of deformation. (Mekhanicheskiye svoystva staley pri vysokikh temperaturakh i razlichnykh skhemakh deformirovaniya.)	
PERIODICAL:	"Metallovedenie i Obrabotka Metallov" (Metallurgy and Metal Treatment), 1957, No. 4, pp. 35 - 41 (U.S.S.R.)	
ABSTRACT:	So far the influence of the deformation regime on the mechanical properties of metals in the hot state have not been investigated. The authors of this paper have studied the mechanical properties during tension, compression, bending and torsion. The used test machines were adapted for operation at high temperatures by fitting electric tubular furnaces with a protective atmosphere inside which deformation of the specimens was effected. To obtain uni- form deformation during compression a graphite lubricant of the contact surfaces was applied up to 700 °C and glass fibres above that temperature. The resistance to deform- ation at various types of loading, the change of the resistance to deformation as a function of the degree of deformation, the influence of the size factor and other features of deformation of specimens at high temperatures	
Card 1/3	IGHTUTAR OF GETOIMGATON OF PROGEDURE NA THOMAN I	

Mechanical properties of steels at high temperatures and various schemes of deformation. (Cont.) 129-4-7/17

were studied. The resistance to deformation of structural carbon and low alloy steels between 700 to 1 200 °C during tension, compression and bending is equal; during torsion the tangential stresses are 0.50 to 0.58 times the normal stresses determined for tension, compression and bending. The resistance to deformation of heat-resistant steel between 600 and 1 200 °C is lower for stretching than for compression and bending. During deformation of steel in the hot state there will be an intensive increase of the resistance to deformation up to a degree of deformation which is equivalent to the uniform relative elongation during tension. With a further increase of the degree of deformation at 700 to 1 200 °C the resistance to deformation of structural steels will remain almost constant. The yield point during deformation of structural steels in the hot state amounts to 54-82% of the ultimate strength; no approach of the yield point to the ultimate strength was observed with increasing temperatures. Uniform relative elongation in structural steels at the forging temperatures amounts to 10 - 15%. Investigation of geometrically similar specimens

Card 2/3

Mechanical properties of steels at high temperatures and various schemes of deformation. (Cont.) 129-4-7/17

with dimension ratios of 1:5 under otherwise equal conditions did not reveal any appreciable influence of the size factor on the obtained mechanical properties in low carbon steels. In determining the force parameters of technological processes of shaping by pressure of structural steels with reductions exceeding 10 to 15% it is necessary to assume a resistance to deformation equalling "the real stress"  $S_B$  where  $\tau_B = (0.50 \text{ to } 0.58)$   $S_B$ .

There are 4 tables, 2 graphs, 2 photos and 5 Slavic references.

ASSOCIATION: TSNIITMASH.

AVAILABLE:

Card 3/3

DEREZHOV, S.R.

0

Gas supply and distribution for radio relay units. Gaz. prom. 4 no.12:39-40 D '59. (MIRA 13:3) (Gas pipes) (Pressure regulators)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA

DEREZHOV, S.R.; YUDIN, S.I.; LYKOV, Yu.N.

Automating and centralizing the control in purification and drying units for the natural gas of the headwork of the Stavropol-Moscow Gas Pipeline. Gaz. dele. no.2:30-36 '64. (MIRA 17:6)

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1. Moskovskoye upravleniye magistral'nykh gazoprovodov i Rayonnoye upravleniye gazoprovoda Bukhara - Ural.

DEREZPOLSKI, ROMAN.

Eugleniny denne. Les eugleniens bentheaux.

Krakow, Poland. Nakl. Polskiej Akademii Umiejetnosci, 1918, 18p.

Monthly List of East European Accessions (EFAI) LC, Vol. 8, no. ", July 1959

Uncl.

## DERFEL', A. G.

DERFEL', A. G. -- "Temperature Conditions in the Finishing Period of Basic Open-Hearth Melting." \*(Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Min of Higher Education USSR, Dnepropetrovsk Order of Labor Red Banner Metallurgic Inst imeni I. V. Stalin, Dnepropetrovsk, 1955

SO: Knizhnaya Letopis<sup>t</sup>, No. 25, 18 Jun 55

\* For Degree of Candidate in Technical Sciences

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00031021

112-57-8-16886 Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 8, p 135 (USSR) AUTHOR: Derfel', A. G. TITLE: Measuring the Temperature of Molten Steel by Means of Immersion Thermocouples (Izmereniye temperatury zhidkoy stali termoparami pogruzheniya) PERIODICAL: Tr. nauchn. -tekhn. o-va chernoy metallurgii (Transactions of the Scientific and Engineering Society of Ferrous Metallurgy), 1956, Nr 9, pp.78-81 ABSTRACT: A short description of the construction of an immersion thermocouple is followed by an analysis of 450 molten-steel temperature measurements, made by means of a platinum rhodium-platinum immersion thermocouple. The measurements revealed that the temperature regimes at various plants, and also in the same department within the same furnace, are not constant. Ore additions and heat loads do not correspond to a given metal temperature, which results in 60-80° C overheating of metal when it is ready for tapping. Dependence of metal quality on metal temperature by the end of the final melting and at the time of tapping has been determined. With a temperature control, it is

Card 1/2

112-57-8-16886

Measuring the Temperature of Molten Steel by Means of Immersion Thermocouples possible to actually regulate the temperature regime of the melting in the final period.

I.G.A.

Card 2/2

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SOV/137-58-9-18585

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 59 (USSR)

Derfel', A.G., Kravtsov, P.Ya. AUTHORS:

Scrap-process Smelting of Pipe Steel With Low-manganese Cast Iron (Vyplavka trubnoy stali skrap-protsessom na malo-TITLE: margantsovistom chugune)

V sb.: Staleplavil'n. proiz-vo. Moscow, Metallurgizdat, PERIODICAL: 1958, pp 19-26

Scrap-process smelting of pipe steel of types St. 4 and D involving low-manganese cast iron (LMCI) was investigated in ABSTRACT: the 185-ton, fuel-oil-operated, open-hearth furnaces with magnesite-chromite crowns at the im. K. Libknekht (K. Liebknecht) plant. The smeltings were carried out with and without the addition of Fe-Mn in the course of the working process. The LMCI contained 1.04% Mn, 0.81% Si, and 0.068% S; standard cast iron contains 2.12% Mn and 0.070% S. It was found that smelting operations employing LMCI as well as processes involving standard cast iron required an identical amount of time for completion. Owing to a reduction in Mn content occurring after fusion and prior to deoxidation (0.15 and 0.20%

Card 1/2

CIA-RDP86-00513R00031021

SOV/137-58-9-18585

Scrap-process Smelting of Pipe Steel With Low-manganese Cast Iron

respectively, instead of 0.25-0.27 and 0.29-0.31% as in the case of standard cast iron) during processing of LMCI for the manufacture of steel, the consumption of the Fe-Mn increased to 5.7 kg/t, in processes not involving the addition of this substance, and to 6.2 kg/t in procedures involving the addition of the Fe-Mn for finishing purposes; analogous operations involving the processing of standard cast iron required 4.2 kg of Fe-Mn per ton. After fusion and prior to deoxidation, the slag contained greater quantities of Fe oxides and smaller amounts of Mn oxides than would be the case during processing of standard cast iron. During processing of the LMCI the S content is greater after the smelting of the metal; however, in the finished metal it is identical to the S content of metals manufactured by smelting with standard cast iron. With regard to the amount of spoilage, the consumption of metal during the manufacture of pipes, mechanical properties, macro- and microstructure, as well as with regard to the amount of oxygen, nitrogen, and nonmetallic inclusions, the steel smelted with LMCI does not differ from the steel obtained through processing of standard cast iron.

1. Steel--Processing 2. Cast iron--Performance 3. Manganese L.K. --Reduction 4. Pipes--Production

Card 2/2

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SOV/130-58-8-5/18 Shneyerov, Ya.A., Derfel', A.G., Kotin, A.G., Byl'skiy, M.T. and Alimov, A.G.

TITLE: Pre-refining Pig Iron in Ladles with a Steam-oxygen Mixture (Predvaritel'naya obrabotka chuguna v kovshakh parokislorodnoy smes'yu)

PERIODICAL: Metallurg, 1958, Nr 8, pp 11 - 14 (USSR)

AUTHORS:

ABSTRACT: At the "Azovstal'" Works, hot metal forms 75% of the open-hearth furnace charge and conditions are therefore particularly suitable for pre-refining. A semi-fullscale installation (Figure 1) was constructed in the mixer house at the works. The authors describe tests on 130 ladles (114 phosphoric and 16 ordinary open-hearth grade). With 20-40% steam evolution of brown fumes was avoided. The following additions (in % of the weight of phosphoric iron) were also tested: limestone 1.5 and 3 with 1% ore in the latter case; ore, 2.5 and 5%; ore and limestone, 1.5; ore 1.5; ore and limestone 1.5 each. The authors describe the effects of the different additions on iron composition and lance consumption (which is associated with the formation of slag capable of coating the lance). With increasing consumption of

SOV/130-58-8-5/18 Pre-refining Pig Iron in Ladles with a Steam-oxygen Mixture

> oxygen per ton of metal (3-8 nm<sup>3</sup>), oxidation of manganese and silicon increases. Steam consumption was regulated to prevent fume formation; the highest oxygen: steam ratios were obtained with large amounts of additions, which produced a protective slag layer. Both top blowing and lancing were tried, tube consumptions being 300-400 and 100 mm, respectively, per lancing. Temperatures were measured with platinum/platinum-rhodium thermocouples: °c, the mean temperature rise during the lancing was 25-70 the rise with additions being greater because of the greater oxidation of silicon. Analysis of the metal showed that good mixing occurred during mixing. Metal losses were as follows: splashes, C.51%, evolution in fume O.04%. The hydrogen content of the metal was found to rise during lancing from 2.3 - 3.9 to  $4.6 - 6.0 \text{ cm}^2/100 \text{ g}$ ,

> falling during pouring into the mixer to  $4.2 - 4.3 \text{ cm}^3/100 \text{ g}$

Card 2/3

SOV/130-58-8-5/18 Pre-refining Pig Iron in Ladles with a Steam-oxygen Mixture There are 2 figures. ASSOCIATIONS: Ukrainskiy institut metallov (Ukrainian Institute of Metals) and Zavod "Azovstal'" ("Azovstal'" Works) Card 3/3 1. Iron--Production 2. Open hearth furnaces--Operation 3. Dippers--Applications

SOV/133-58-8-6/30 Shneyerov, Ya.A., Derfel', A.G., Kotin, A.G., AUTHOR: Bul'skiy, M.T. and Alimov, A.G. TITIE: Experiments on a Pre-treatment of Pig Iron in Ladles with a Steam Oxygen Mixture (Opyt predvaritel'noy obrabotki chuguna v kovshakh parokislorodnoy smes'yu) PERIODICAL: Stal', 1958, Nr 8, pp 694 - 702 (USSR) ABSTRACT: Experimental results obtained on the de-siliconisation of pig iron in ladles by blowing an oxygen-steam mixture with and without various additions to the ladle are described. The treatment was carried out on the way to the mixer in the open-hearth melting shop. The experimental set-up is shown in Figure 1. Initially, blowing of pure oxygen was tried but, due to the formation of copious fumes, this was discontinued and an oxygen-steam mixture was used, steam being added according to blowing conditions to keep the formation of fumes down. The method of mixing oxygen with steam is shown in Figure 2 and the sampling device for taking samples from the ladles in the course of blowing -Figure 3. Additions of ore, limestone and ore-limestone mixtures to the ladle were introduced at blast furnaces during the filling of the ladle with iron. The compositions Card1/5

5CV/133-58-8-6/30 Experiments on a Pre-treatment of Pig Iron in Ladles with a Steam Oxygen Mixture

> of additions and mean data on the elimination of pig-iron impurities during filling of the ladle, its transport to the mixer and during 15, 30 and 45 minutes of blowing oxygen, as well as mean iron temperatures before and after blowing are given in Tables 1 and 2. The dependence of the degree of de-siliconisation during 45 minutes of blowing on the initial concentration of silicon - Figure 4 and on the consumption of oxygen - Figure 5; mean consumption of oxygen and steam and limits of their variation for blowing with various additions to the ladle - Table 3; the dependence of oxidation of manganese during 45 minutes of blowing on the consumption of oxygen - Figure 6; the fill of the iron temperature during filling of the ladle and its transport to the place of the treatment - Table 4; the influence of the oxygen-steam ratio on the increase of the iron temperature during 45 minutes of blowing - Figure 7; changes in the chemical composition of iron along the height of the ladle after blowing - Table 5. Conclusions: 1) as a result of blowing phosphorus pig-iron (about 1.5% of P) in the ladle with an oxygen-steam mixture at a specific

Card2/5
SOV/133-58-8-6/30 Experiments on a Pre-treatment of Pig Iron in Ladles with a Steam Oxygen Mixture

consumption of oxygen of 4.8  $m^3/t$  and of steam 4.0 kg/t at a pressure of 4.5 atn., the following elements are oxidised: 0.20% of silicon (41.5% of the initial content), 0.55% of manganese (29.5% of the initial content), and 0.29% of carbon (7.3% of the initial content). During the transport of the ladle, the content of sulphur was decreased by 0.027% and during blowing it was increasing by 0.003, thus the decrease in the sulphur content was 0.024% (21.2% of the initial content). The content of phosphorus remains practically unchanged. On blowing low phosphorus iron, the oxidation of iron admixtures was on the same level as for phosphorus iron; 2) the introduction of oxidising and slag-forming admixtures into the ladle during its filling with iron helped in oxidising the iron admixtures during the filling and the transport of the ladle and noticeably The improved their exidation during the blowing of oxygen. best results in respect of the oxidation of admixtures, utilisation of oxygen and increasing the iron temperature were obtained with additions of 15 kg of ore and 15 kg of limestone per ton of iron. Under the above conditions, the Card3/5

Experiments on a Pre-treatment of Fig Iron in Ladles with a Steam Oxygen Mixture

> following results were obtained (in brackets the percent of the initial content): S Ċ Mn Si Phosphorus 0.44(66.7) 0.78(40.0) 0.31(8.0) 0.023(19.0)0.52(73.5) 0.62(30.5) 0.20(4.5) 0.025(26.0). Iron Usual iron During surface blowing of oxygen (without immersing the tube into the iron), the oxidation of the elements remained the same; 3) on blowing with oxygen-steam mixture (20-40% by wt. of steam) the formation of brown fumes was not observed. With an increasing proportion of additions to the ladle the consumption of steam in the oxygen steam mixture was decreasing. On blowing without immersing the tube the proportion of steam can be decreased to 20%; 4) the increase in the iron temperature during surface blowing is higher than when blowing with an immersed tube. The temperature of the iron after blowing with the optimum additions of limestone and ore is 40°C higher than the usual iron temperature delivered to the mixer; 5) the maximum utilisation of the volume of the ladle (up to 85%) was obtained

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SOV/133-58-8-6/30 Experiments on a Pre-treatment of Pig Iron in Ladles with a Steam Oxygen Mixture on surface blowing (with 15 kg/t additions of limestone and ore); 6) the consumption of blowing tubes was 100 mm for ladle with surface blowing and 300-400 mm when the tube is immersed; 7) the total losses of metal on blowing were about 0.15%. There are 7 figures, 5 tables and 7 references, 3 of which are Soviet and 4 English. ASSOCIATIONS: Ukrainskiy institut metallov (Ukrainian Institute of Metals) and Zavod "Azovstal'" ("Azovstal'" Works) 1. Iron--Production 2. Silicon--Oxidation 3. Oxygen --Applications 4. Steam--Applications 5. Dippers--Applications

AUTHORS: TITLE: PERIODICAL ABSTRACT:	In order to compare the instead of ore and linestonnant and ore-lime briquettes instead of ore and linestonnant open-hearth furnaces as well as to determine the optimum composition of the above agglomerated materials, experi- composition of the above agglomerated materials, experi- mental heats were carried out in 370-ton open-hearth furnaces at the imeni Dzerzhinskiy Works during 1957-1958 . furnaces at the imeni Dzerzhinskiy were made in the imen importance were made during the same periods. furnaces at the imen importance were made in the importance wer
· · ·	Altogether 0, it ons and 90 comparative made in the various compositions and 90 comparative made in the and limestone were made. All heats were made in the same furnaces and during the same periods. The composition same furnaces and during the same periods. The composition of briquettes and sinters tested is given in Table 1 (basicity of briquettes varied from 0 - 5.4 and of
Card1/4	(basicity of the f

SOV/133-59-5-6/31 Efficiency of the Use of Sinter and Briquettes Instead of Ore and Limestone in Open-hearth Furnaces sinters from 0.4 to 2.2}. Changes in the basicity and FeO content in slag in the course of smelting are shown in Figures 1 and 2, respectively, the main indices of the experimental and comparative heats in Table 2, the comparison of the amounts of CaO, SiO<sub>2</sub> and  $\sum$ FeO transferred to slag from various granular materials - Table 3, changes in the SiO2 content of slag in the course of smelting for various heats - Figures 3 and 8, the same changes in slag basicity - Figure 4, the same changes in the  $P_20_5$  content -Figures 5 and 9, the same changes in the CaO content -Figure 6, the same changes in the [FeO and CaO and [FeO contents - Figures 7 and 11, the same changes in the content of sulphur - Figure 10. It was found that the use of fluxed briquettes or sinters instead of ore and limestone leads to a considerably faster formation of slag during the melting down period, to an earlier slag removal and to a corresponding decrease in the melting

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SOV/133-59-5-6/31 Efficiency of the Use of Sinter and Briquettes Instead of Ore and Limestone in Open-hearth Furnaces

period. The use of fluxed briquettes or sinter of a basicity 2.0 - 2.5 without additions or with minimal additions of ore and limestone made it possible: 1) to decrease the melting period in 370-ton furnaces by 40-45 min with an increase in the furnace productivity of 6-7%; 2) to decrease the duration of heating up successive layers of granular materials during the charging period as well as their heating after the charging is completed (which permitted a further decrease of 10-15 min in the duration of heats); 3) to increase slag basicity in the course of smelting and to decrease the FeO content of slag at the beginning of the melting period and to increase its FeO content at the end of this period; 4) to increase the dephosphorising and desulphurising ability of slag due to its earlier formation and higher basicity throughout the whole course of smelting and 5) to exclude blow-outs from the furnace during melting. The briquettes and sinters can also be used with success during refining. The organisation of a large-scale

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SOV/133-59-5-6/31 Efficiency of the Use of Sinter and Briquettes Instead of Ore and Limestone in Open-hearth Furnaces production of fluxed briquettes and sinters for the openhearth furnaces and their wide application in steel-making practice is recommended. There are 11 figures, 3 tables and 6 Soviet references. ASSOCIATIONS: Ukrainskiy institut metallov (Ukrainian Institute of Metals) and Zavod imeni Dzerzhinskogo (imeni Dzerzhinskiy Works)

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18.3200	77447 SOV/133-60-1-8/30
AUTHORS :	Shneyerov, Ya. A., Leporskiy, V. V., Derfel', A. G., Bul'skiy, M. T., Alimov, A. G.
TITLE:	The Use of Preliminary Processed Cast Iron in Open- Hearth Smelting
PERIODICAL:	Stal', 1960, Nr 1, pp 32-35 (USSR)
ABSTRACT:	This is a report concerning ladle treatment of liquid cast iron blowing steam-oxygen mixture. The experiments were conducted at the "Azovstal'" Plant in 1957, on a semi-industrial installation in the mixing building. Only one ladle could be blown at a time. Later on, from June to August of 1958, fourteen experimental melts were made. B. S. Kurapin, V. I. Khmirov, N. T. Berilov, A. M. Kercher, and A. I. Tkachenko participated in the work. For each test melt, 4 ladles (each holding approxi- mately 60 tons of cast iron) were blown. The beginning, of blowing took place 1 to 2 hours before the beginning
Card 1/3	of blowing took place 1 to 2 hours before the bogen of of the test melt. 1.5% of ore and 1.0% of lime were added to each ladle. The degree of filling the ladle

The Use of Preliminary Processed Cast Iron In Open-Hearth Smelting

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was an average of 73% . The blowing schedule was as follows: Pressure (atm gage): for oxygen, 3.4; for steam, 3.5. Hourly consumption: oxygen, 295 m<sup>3</sup>/hr; steam, 195 kg/hr. Specific consumption: oxygen, 2.6 m<sup>3</sup>/ ton; steam, 1.7 kg/ton. An increase of steam superheating (up to 300-400° C, instead of 160-180° C) will increase the degree of filling of the ladle by elimination of the splash-out. The open-hearth melts were conducted in 340ton furnaces using the blown cast iron. The authors arrived at the following conclusions. (1) The experiments showed that during the preliminary blowing of conversion cast iron by the steam-oxygen mixture, silicon, manganese, and sulphur were burned out to the extent of 54%, 37%, and 13.7% respectively. (2) The average increase of temperature of cast iron during blowing equals 30° C. (3) As a result of the decreased consumption of ore and limestone (in the charge), while smelting the blown cast iron, and due to the increase of cast iron temperature, the duration of melts decreased by 45 minutes for rimmed

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The Use of Pre Open_Hearth Sme	liminary Processed Cast Iron In elting	77447 SOV/133-60-1-8/30
	steel and by 1 hour 11 minutes for specific fuel consumption decreased of the furnace increased on the ave connection with good experimental in the "Azovstal'" Plant, it is planned industrial installation for ladle to iron. The editors comment that, du number of test melts (only 5000 tor smelted) the above conclusions show preliminary. There are 2 figures.	and the productivity erage by 8%. In results obtained at ed to build an creatment of cast ie to the small ns of steel were
ASSOCIATION:	Ukrainian Scientific Research Inst: the "Azovstal'" Plant (Ukrayinskiy metallov i zavod "Azovstal'")	

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<ul> <li>(Physicochemical Bases of Steel Making; Transactions of the Fifth Conference on the Physicochemical Bases of Steelmaking) Moscow, Metallurgizdat, 1961. 512 p. Errata slip inserted. 3, 700 copies printed.</li> <li>Sponsoring Agency: Akademiya nauk SSSR. Institut metallurgii imeni A. A. Baykova.</li> <li>Responsible Ed. : A. M. Samarin, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: Ya. D. Rozentsveyg. Tech. Ed. : V. V. Mikhaylova.</li> </ul>			
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Card 1/16		of Sciences USSR; Ed. of Publishing House: Ya. D. Rozentsveyg.	
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technicians of a students of sche bureaus and pla COVERAGE: The annual convent of the steelmal mechanism an in steelmaking involved in the	ollection of articles is intended netallurgical and machine-build ools of higher education, staff m muning institutes, and scientific collection contains reports pre- lon devoted to the review of the ding process. These reports de d kinetics of reactions taking pl furnaces. The following are a production of alloyed steel, the n of solidification, and the conv articles contain conclusions dr al studies. and are accompanie	sented at the fifth physicochemical bases al with problems of the ace in the molten metal lso discussed: problems estructure of the ingot, retter steelmaking		

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Physicochemical Bases of (Cont.)	SOV/5411
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