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L 22282-66	
ACC NR: AP6007263	
electron paramagnetic resonance signal was observed from f from aluminum-boron silicate? quartz? multicomponent silic gen-free glassarsenic trichloride. In all cases, the spi fibers (electron paramagnetic resonance) was compared with data from the starting glass. This comparison between the paramagnetic resonance spectra of the fibers and the start bears witness to the partial breaking of the covalent bonds ation of the fibers. The constant width of the electron paramagnetic from the glass to the fibers can be regarded as a proof of any molecular orientation in the fibers. Orig. art. has	acte, and oxy- ectra from the corresponding electron Ing glasses in the form- ramgnetic he transition the absence : 3 figures
SUB CODE: 11, 20/ SUBM DATE: 05Jul65/ ORIG REF: 007/ OT	
	I REF: 002
Cord 0/0 PSt	
Cord 2/2 ^{DSt}	

CIA-RDP86-00513R001549320003-4

KHESIN, M.1.; SHEVELEVIC., S.A. Furaplast, a new preparation for the treatment of minor traumas. Vest. derm. i ven. 38 no.3:89 Mr 'rd. (MIRA 18:4) 1. Zdravpunkt Khar'kovskoy partyumernoy fabriki.

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549320003-4 "APPROVED FOR RELEASE: 08/09/2001 . . . SHEVELIN, B.N., kandidat tekhnicheskikh nauk; GOLOVANOVA, A.P., inzhener. Clean stamping of nonferrous parts in friction presses. Sbertest. NIIKHINMASH no.19:22-40 '56. (MIRA 10:3) (Forging)



L 14471-65 Pb-4 AMD ACCESSION NR: AP4041821	s/0239/64/050/007/0901/0906
AUTHOR: Shevel'ke, Ye. A.	; B
TITLE: Heat control and pyroge	nic reactivity of rats
SOURCE: Fiziologicheskiy zhurn	nal SSSR, v. 50, no. 7, 1964, 901-906
	heat control, pyrogenic reactivity, octal temperature, subcutaneous spine sumption, chemical metabolic reaction,
attributed primarily to metabol investigated the pyrogenic reac the physical and chemical compo experiments were conducted on 9 reactivity to a killed bac. mea	homoiothermy in the higher animals Lic reactions, the present study Detivity of white rats in relation to Denents of body heat control. 377 25 white rats to determine their sentericus culture (1 ml/kg) and to Dered intravenously, subcutaneously, Detal, and subcutaneous spine tissue
Card 1/3	
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CIA-RDP86-00513R001549320003-4

14471-ACCESSION NR: AP4041821 temperature changes and oxygen consumption were measured at intervals of 30 min to 1 hr for several hours after pyrogen administration. Chemical and physical functional capacities of body heat control were determined by oxygen consumption and body temperature changes after administering alpha-dinitrophenol (0.02 to 0.03 g/kg), after 1 hr exposure to overcooling (0.5°C). Pyrogenic reactivity was found particularly markedly expressed when vascular receptor zone tissues first come into contact with the pyrogens. A distinct pyrogenic reaction is observed with intravenous pyrogen administration and lesser reactions are observed with subcutaneous or intramuscular pyrogen administration. The ratios between rectal and subcutaneous spine tissue temperatures show the role vessel tone reaction plays in body temperature increase. With the introduction of the killed culture, the subcutaneous spine tissue temperature decreases as body temperature increases indicating an active reduction in heat emission from body surface. With the introduction of alpha-dinitrophenol, the skin temperature increases more rapidly and higher than body temperature, which helps increase the emission of excess heat. The capacity to realize a pyrogenic reaction appears during the early development of homoiothermy and its expression depends on the development of Card 2/3

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549320003-4

ь 14471-65 AP4041821 ACCESSION NR: Chemical heat control serves as physical heat control mechanisms. the basis of homoiothermy formation and the energy basis of the pyrogenic reaction itself. In white rats the chemical component of pyrogenic reactivity is well developed, but the physical component which is affected by ecological factors is less developed and less markedly expressed. Orig. art. has: 3 figures. ASSOCIATION: Laboratoriya aravnitel'noy fiziclogii i patologii i Laboratoriya obshchey patologii Instituta eksperimental'noy meditsiny* AMN SSSR, Leningrad (Laboratory of Comparative Physiology and Pathology of the Experimental Medical Institute of the AMN SSSR, Leningrad) LS SUB CODE: 00 ENCL: 06May63 SUBMITTED: OTHER: 009 005 NR REF SOV: Card 3/3

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CIA-RDP86-00513R001549320003-4

SHEVELKIN, B.N., kand.tekhn.nauk Flaws in the spherical bottoms of units, made by hand from stainless and acid-resistant steel. Trudy MIIKHIM4ASH no.26:186-191 '58. (MIRA 13:7) (Chemical engineering---Equipment and supplies)

APPROVED FOR RELEASE: 08/09/2001

SHEVELKIN, B.N., kand.tekhn.nauk

Die-stamped and welded parts and prospects for their use in the chemical machinery manufacturing industry. Trudy NIIKHIMMASH no.26:192-206 '58. (MIRA 13:7) (Chemical engineering--Equipment and supplies)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549320003-4

s/184/59/000/006/004/006 87573 A104/A026 Shevelkin, B.N.; Candidate of Technical Sciences, Bogoslovskiy, I.M. and Kravchenko, L.L.; Engineers ł On the Choice of a Method for Pressure Processing of Two-Layer 20K-X 18.8200 AUTHORS: Khimicheskoye mashinostroyeniye, 1959, No. 6, pp. 40 - 42 18H12M2T (20K-Kh18N12M2T) Steels The article deals with new structural steels. The double-coated The article deals with new structural steels. The double-coated (1Kh18) steel consisting of a carbon-steel primer with a 08X13 (08Kh13) and 1X18H9T (1Kh18) NOT) acid-proof steel costing used in chemical and netroleum engineering showe TITLE: Steel confisting of a carbon-steel primer with a voxis (voxnis) and ixioHyi (in N9T) acid-proof steel coating used in chemical and petroleum engineering shows indecusts corrector resistance. For heavy builers the use of double-costed at NYI') acld-proof Steel coating used in chemical and petroleum engineering shows inadequate corrosion resistance. For heavy boilers the use of double-coated steel with VNRNIOMOT steel ploting is recommended. Whether an areas area PERIODICAL: Inadequate corrosion resistance. For neavy Dollers the use of double-coated st with Kh18N12M2T steel plating is recommended. Tests on pressure processing of double-coated 20K-Kh18N12M2T 35-mm steel corrigion out by the Laningmodely file WITE KALONIZEK' Steel plating is recommended. Tests on pressure processing of double-coated 20K-Kh18N12M2T 35-mm steel carried out by the Leningradskiy filial NTTKETMMARE (Leningrad Branch of the All-Union Decim and Scientific Recearch double-coated 20K-KhloNi2M2T 35-mm steel carried out by the LeningradsKly Illi NIIKhIMMASh (Leningrad Branch of the All-Union Design and Scientific Research Institute of Chamical Machinery) are described. Plastic properties tested at NIINIITWIADA (Leningrad branch OI the All-Union Design and Scientific nesearch Institute of Chemical Machinery) are described. Plastic properties tested at temperatures of 20-1 180°C are highest at normal temperatures and at 1 100-1 Institute of Chemical Machinery) are described. Plastic properties tested at temperatures of 20-1,180°C are highest at normal temperatures and at 1,100-1,180°C. The adhesive strength between the primer and the costing was determined by chemical between the primer and the costing was determined by chemical between the primer and the costing was determined by chemical between the primer and the costing was determined by chemical between the primer and the costing was determined by chemical between the primer and the costing was determined by chemical between the primer and the costing was determined by chemical between the primer and the costing was determined by chemical between the primer and the costing was determined by chemical between the primer and the costing was determined by chemical between the primer and the costing was determined by chemical by the primer and the primer and the cost of the primer and the primer temperatures of 20-1,100°C are nignest at normal temperatures and at 1,100°C are nignest at 1,10°C are nignest a The adhesive strength between the primer and the coating was determined by snea ing and tearing tests on a 5-ton tensiometer at 20, 700, 800, 1,000, 1,100 and Card 1/3

APPROVED FOR RELEASE: 08/09/2001

s/184/59/000/006/004/005 87573 A104/A026

On the Choice of a Method for Pressure Processing of Two-Layer 20K-X18H12M2T(20K-

1,180°C. The influence of heating time on the adhesive strength between primer and coating was tested during 15, 30, 60 and 120 minutes heating time at 1,100 C and subsequent water cooling. The behavior of double-coated steel during bending and subsequent water cooling. The behavior of double-coated steel during behavior and its influence on intercrystalline and general corrosion of the coating was tested under cold and hot conditions (1,000°C) on 35-mm cross-section samples. Bending was done by stamps with a radius curvature of 16, 24 and 40 mm. The improving properties of heat processing on strained metal was tested by annealing at 750 - 950°C for 3 hours followed by air ccoling, and tempering at 1,000°C for 25 min and subsequent air cooling (for austenitic steel alloys). Metallographic tests revealed no damage to the adhesion of 20K (20K) and Kh18N12M2T double-coated steel during bending, despite of the separation of a carbide layer of 0.03 - 0.1 mm at the contact line of the primary layer and the coating. Doublecoated steel can be strained either hot or cold for stamping purposes; stamping itself should be performed at 1,180 - 900°C. As the shearing and tearing strength decreases during prolonged heating prior to stamping, this should be curtailed as much as possible. The permissible bending radius in hot or cold conditions is: 3 - 3.5 a possible. The permissible bending radius in not or cold conditions is: 3 - 3.5 (cold) for outward bending (T = 1,200 - 400°C) and 4 - 2.5 a for inward bending.

Card 2/3

APPROVED FOR RELEASE: 08/09/2001

I BOOK EXPLOITATION SOV/5488
cow. Vsesoyurnyy nauchno-issledovatel'skiy 1 konstruktorskiy institut khimicheskogo mashinostroyeniya.
Materialy v knimicheskom mashinostroyonii (Materials in Chemical Machine Building) Moscow, Informatsionno-izdatel'skiy otdel, 1960. 143 p. (Serias: Itss: Trudy, vyp. 34) 3,000 copies printed.
Gosudarsevennyy komitet Soveta Ministrov SSSR 1 maahinostroyeniyu and Vsesoyurnyy nauchuo- 1 i konstruicoraidy institut khimioheskogo 1 Millohasha
K. Fedorov, Candidate of Technical Sciences; I Chairman: V. B. Mikolayev; Deputy Chairman: Candidness Sciences: B. N. V. Goncharov, Yu. G. Popandopulo, I. N. N. Goncharov, Yu. G. Popandopulo, I. N. of Technical Sciences, and G. M. Yusova, ical Sciences; Ed.: V. I. Qlukhov; Tech. Ed.:
POSS : This collection of articles is intended for technical personnel in themical machine building and other branches of the machine and instrument industry.
EAGE: The collection deals with the results of investigations on the mechanical, corrosive, and engineering qualities of certain alloys. Also discussed are heat-treatment regimes, the phase composition of stainless steels, methods of checking products, and seath article.
[Engineer], and Y. K. Fedorov [Candidate of Tech- Crystallization of Alloys in the Elastic-Vibration 3
Moskrin, W. I. [Engineer]. Motal Which Will Resist Corrosion in Wolten Type Metal Containing Zinc Shapiro, M. B. [Engineer], and Y. M. Makarov [Engineer]. Induction Hardening of Small-Module Finions of [Speed] Reducers
Chernykh, WF. [Engineer, Irkutskij fillal NIIKhDRWADHA - I <u>rkutsk Staa</u> nch of MIKhDRWAMH]. Investigstion of the Effect of Hydrogen on the Endurance of Certain Steels [Engineers Y. D. Molohanova and WI. MIT fook part in the investigation] 33
H. tova,
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Bhevelkin, B. M. [Candidate of Technical Sciences]. Effect of Tarteus-a-Frase Contents in 1Kh18N97 Steel and a- and o-Fhase Card 3/5
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APPROVED FOR RELEASE: 08/09/2001

Pressing of Two-Layer Sheet Material

82111 s/184/60/000/02/03/006

in both cold and heated state. In a cold state, St. 3-1Kh18N9T, 8 nm thick, has tensile and shearing strengths of $56 - 63 \text{ kg/mm}^2$ and $28 - 32 \text{ kg/mm}^2$, respectively. Two-layer sheets must be cut with the plating on top, thus burrs are formed on the basic metal. When cutting sheets plated on both sides with different materials, the side with a lower hardness must be on top. The same rules apply to punching. Oxygen-flux or oxyacetylene torch cutting can be also used. Two-layer sheet steel and bimetal can be shaped on presses and rollers in cold and heated state. However, cracks can appear in the transition zone, due to a lowered plasticity. Bending radii were compiled in Table 2. Drawing of subject materials can be performed in cold and heated state. For cold a die with a telescopic clamping ring developed by NIIKhIMMASh, can be recommended. For pressing, platings must be protected by sheets of thin paper or a soft metal (aluminum).

There are: 2 photographs, 1 diagram, 1 set of graphs, 2 tables and 4 references: 2 Soviet, 1 American and 1 German.

Card 3/3

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549320003-4"

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18.7400 AUTHORS: Shevelkin, B.N., Candidate of Tech Bogoslovskiy, I.M.; - Engineers TITLE: Investigation of the Processability PERIODICAL: Khimicheskoye mashinostroyeniye,	y of Laminated Steel-Silver Sheets
metobrabotka (State Designing). The sheets control of the state of the sheets control of	Was developed by the Giprotsvet- ientific Research Institute for isist of a "steel 10" basic layer and with 99.98% silver. Firm adhe- the between the base metal and the thing is ensured by a special-alloy erlayer, vacuum heated prior to hot ling. Tests were performed in the KhIMMASh (All-Union Designing and entific Research Institute of Chemi- Machinery). Figure 1 shows the ructure of the base metal (1), inter- yer alloy (2) and the silver coating
Card 1/3	89584

CIA-RDP86-00513R001549320003-4

S/184/60/000/005/004/021 A104/A026

Investigation of the Processability of Laminated Steel-Silver Sheets



Figure 2 shows the effects of heating at $20 - 600^{\circ}$ C, i.e., relative contraction (ψ); relative elongation (\dot{d}) and tensile strength ($\dot{\sigma}_{\rm b}$). Buckling tests were performed at $20 - 700^{\circ}$ C. Elongation properties were tested on solid or welded ingots, which were cold forged into 400 and 700 mm diameter bottoms with inverted plating. Only the carbon-steel layer was welded before forging with 942A (ECh2A) electrodes, the coating was applied afterwards. To avoid damage of coatings during forging the ingot was protected with parchment paper. The porosity of ingot and bottom coating was examined by application of filter paper soaked in a solution of 10 g NaCl, 10 g gelatine and 1 g K₃Fe(CN)₆ in 1 1 of water. No porosity was found.

Rolling tests included two 400 and 700 mm shells. Coating damages were avoided by interlayers of thin a uminum foils or strong paper. After rolling the coating was inspected as to rosity according to the described method. The authors' conclusion is: silver a ted steel sheet of 5 mm or less showed satisfactory

Card 2/3

APPROVED FOR RELEASE: 08/09/2001

89584 \$/184/60/000/005/004/021 A104/A026

Investigation of the Processability of Laminated Steel-Silver Sheets

tensile strength and elasticity when subjected to buckling, elongation and rolling in cold state. Bottoms should be made from solid ingots or heat-processed welded ingots. Protective interlinings of parchment paper are necessary during pressure processing of silver-coated steel for stampings and thin aluminum foils and of strong paper for rolling. High surface cleanness of stamps and rollers are essential. Silver-coated steel is not suitable for cold or hot manual stamping. Porosity checks are indicated, any defects can be removed by dressing or welding. Thickness of welding should be checked with calipers, and the adhesion between base metal and coating by the electroacoustic method. There are 3 figures and 1 table.

Card 3/3

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S/184/61/000/001/007/014 A104/A029

AUTHORS: Shevelkin, B.N., Candidate of Technical Sciences, Kravchenko, L.L., Golovanova, A.P., Engineers

TITLE: Investigation Into the Processibility of High-Chromium X25T (Kh25T) Steels by Pressure

PERIODICAL: Khimicheskoye Mashinostroyeniye, 1961, No. 1, pp. 37-40

TEXT: The necessity for nickel economy is stressed, followed by the description of the results of tests carried out by the NIIKhIMMASh on the processibility of high-chromium Kh25T steels by pressure. Changes of the mechanical properties of Kh25T steel during tests at 20-1,100°C are shown in Fig. 1. During cooling from 0 to -70°C a marked decrease of resilience accompanied by slight improvement of tensile strength was observed. Elongation tests at temperatures below zero were carried out in a thermostat installed in a breaking machine. Gooling was achieved by sublimation of solid carbon dioxide in ethyl alcohol. After elongation, bending, etc. the processed samples were heated in order to diminish the deformation force. The samples were subjected to repeated heating at temperatures of Card 1/6

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CIA-RDP86-00513R001549320003-4

S/184/61/000/001/007/014 A104/A029

Investigation into the Processibility of High-Chromium χ_{25T} (Kh25T) Steels by Pressure

1,000 - 1,180°C for varying lengths of time. Simultaneously the effect of subsequent thermal treatment on their mechanical properties was tested at 760-780°C, followed by rapid water cooling. A number of samples subjected to single or repeated heating up to 1,180°C of various duration and cooling rates were tested for tendency to intercrystallite corrosion under the supervision of I,G. Volikova. Tests were carried out in a copper sulfate solution (120 hours), 65% boiling nitric acid (96 hours) and 55% phosphoric acid (480 hours) at 70-80°C. Bending tests were performed on samples cut lengthwise and across rolled sheets at 100 - 1,180°C; the samples were then subjected to corrosion tests according to the above method plus soaking (2 x 48 hours) in 97% boiling acetic acid. The actual degree of deformations was determined by marking circles of 30 mm in diameter on slabs before pressing and measuring the ovals formed from these circles after pressing. Hardness and expansion tests of various sections of the bottoms revealed that hardness, deformation, tensile strength and

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APPROVED FOR RELEASE: 08/09/2001

S/184/61/000/001/007/014 A104/A029

Investigation Into the Processibility of High Chromium X25T (Kh25T) Steels by Pressure

yield limit increase towards the edges. The following recommendations were made: expansion and bending of Kh25T steel can be performed without heating (at t > 15°C) or with heating to 900-700°C. The heating time must not exceed 20 min. Under these conditions the fine-grained structure is preserved and satisfactory plastic properties are achieved. The bending radius should not be less than 2.5 of the metal thickness (cold) or 1.5 (heated). Parts subjected to bending and expansion under hot condition should be heat-treated at 760-780°0 for 2-3 min per mm, followed by rapid water cooling. Kh25T steels showed no tendency to intercrystallite corrosion after being pressure treated either cold or heated to 900-700°C for 20 min. The high corrosion resistance of Kh25T steels in 55% phosphoric acid and 97% boiling acetic acid was established. After deformation processing (either cold or at temperatures not exceeding 900°C) Kh25T steels showed high corrosion resistance and did not tend to intercrystallite corrosion in 65% nitric acid. Heated to above 900° C, the steel reveals a tendency to Card 3/6

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1-1200 18 1285	S/184/61/000/003/003/004 D041/D113	
AUTHOR :	Shevelkin, B.N., Candidate of Technical Sciences, Kravchenko, L.L., Golovanova, A.P., Bogoslovskiy, I.M., Engineers	
TITLE:	Investigations concerning the possibility of working titanium alloys by means of pressure	
PERIODICAL:	Khimicheskoye mashinostroyeniye, no. 3, 1961, 33-38	
carried out ces of the o carried out (OT 4) sheet (δ_B and from 20 to been observe direction. I thickness) f	article contains some data of the above-mentioned investigations at NIIKhIMMASh to be used in the manufacture of parts for devi- chemical machine building industry. The investigations have been on BT1 (VT1) alloy sheets, 1.5 to 8 mm in thickness and on OT 4 ts 1.5 and 5 mm in thickness. Fig.l shows that the stability $\delta_{0.2}$) of the alloys decreases without variation when heated up 700°. A maximum decrease in a temperature range of 20-400° has ed with samples which had been cut out transversely to the rdling mpact toughness variation of VT1 (6 mm thickness) and OT4 (5 mm in a temperature range of - 70 to + 1000° is shown in Fig.2. At s close to 1000°, impact toghness values could not be obtained since	

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Investigations concerning the possibility

the samples only buckled due to high ρ lasticity; in Fig.2, this is shown by a dotted line. On investigating the mechanical properties of the VTl titanium sheets (12 and 25 mm thick) there was no indication of anisotropy of the mechanical properties along the length and breadth of the rolling direction. The mechanical and plastic properties of the alloys were tested under various heat conditions. VT1 samples were heated in the furnace (from one to three times) up to 750°, OT4 samples up to 800° and cooled in the air; the soaking time was changed from 20 to 160 minutes, and the samples were cooled in different media (water, air and together with the furnace). The tests have shown that triple heating with 160 minutes' soaking at temperatures below allotropic conversions deteriorates only by 5-10% the plastic properties of both alloys. A corrosion test in a 1.5% H2SO4 solution indicated that a heating of up to 800° with short soaking (up to 30 minutes) does not change the corrosion resistance of the metal. Prolonged soaking at temperatures of 750° deteriorates the latter property. Table 3 shows the permissible bending radii obtained from investigations with cold and hot samples. After the bending tests, corrosion tests were carried out during 100 hours under the guidance of G.L. Shvarts. The technological media contained molybdenum trisulfide, molybdenum and tungsten sulfo-

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Investigations concerning the possibility

salts, as well as hydrochloric acid and sulfide compounds. The corrosion speed of VTl did not exceed 0.015 G/m²hour, and of the OT4 0.06 G/m²hour. Shells rolled out from titanium sheet with a lengthwise welding seam can be flanged with a local heating up to $300-350^{\circ}$, and in case the whole shell is hot, with a general heating up to $550-750^{\circ}$. The largest flange diameter is determined by the following formula:

D Coef flanging

The symbols are explained in Fig. 6a. Drawing tests with titanium alloys have been carried out in die-sets by means of a 30 ton hydraulic press. As punch material C435-52 (SCh 35-52) chromium-nickel cast iron is recommended; the dies should be made of the same cast iron with steel inserts or of steel whose surface has been consolidated to a hardness of RC 56-60. The working surface of the punches and dies must have a fineness of ∇ 9, and if higher accuracy is required, the surfaces must be polished. Bottom stamping from titanium alloys was also effected. The following conclusions were drawn: 1. Bottom stamping from VT1 with a relative elongation of more than 20% can be effected in the cold state; if the press has not the necessary capacity, the punches and blank should be heated to temperatures of

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Investigations concerning the possibility

300-350° or the blank should be heated to 550-750°. Bottom stamping from VT1 with a relative elongation of less than 20% in the cold state is not recommended. Bottom stamping from OT4 alloy should be carried out by heating the die-set and the blank to temperatures of 300-350° or by using a hot piece with temperatures of 650-850°. 2. Die-sets for stamping elliptical bottoms should have a curvature radius of (2-3) δ , and a clearance (unilateral) between die and punch of $z = (1.05 \div 1.11) \delta$. 3. Cold stamping requires XBJ -21 (KhVL-21) or 9-32 lacquers as lubricants for covering the blanks, as well as water-colloidal preparations like **B-O** (V-O) or **B-I** (V-1). For hot stamping it is recommended to use V-O, and V-1 or dry graphite to be sprayed on the surface. 4. The blank's edges should be evenly cut and the burr removed. 5. In order to increase the plasticity and remove the remaining inner strains, a heating to 550-600° with a soaking of 3-4 minutes per every mm of the bottom-wall thickness must be effected. 6. Corrugations and bulges can be removed by secondary stamping or by heating them up to 400-5000 and hammering with a copper hammer on the die. Flanging, expanding, flattening, bending and rolling tests with cold VT1 pipes (diameter -26 mm, wall thickness - 1.5 mm) have been carried out. The VTI had a sta-bility limit of 46.6 kG/mm² and a relative elongation of 21.5%. The tests Card 4/8

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D038/D112

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s/182/61/000/004/005/007

1.1200 1.2300

Shevelkin, B.N. AUTHOR:

TITLE:

Stamping bottoms (shallow cups) from pile-welded blanks for apparatus

Kuznechno-shtampovochnoye proizvodstvo, no. 4, 1961, 42-43 PERIODICAL:

TEXT: The article describes a process which eliminates bulges and puckers in stamped bottoms (shallow cups) which, up till now, had sometimes to be manufactured with walls 30-50% thicker than planned, causing waste of metal and increasing the weight of the apparatus. [Abstracter's note: type of apparatus not specified]. The process developed by the laboratoriya obrabotki davleniyem (Laboratory of Working by Pressure) at NIIKhIMMASh, was tested at the opytnyy zavod NIIKhIMMASh (NIIKhIMMASh Experimental Plant) where pile welded blanks with a bottom thickness $\frac{D}{(blank diameter)} = 800 - 1000$ and sometimes higher were stamped. ratio of

Ŝ (blank thickness)

The pile-welded blank (Fig. 1) comprises three separate disc-shaped blanks, i.e. two outer carbon steel blanks and a central one made from acid-proof and stainless steel, non-ferrous metals, titanium and other rare metals. To allow air to escape

Card 1/4

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27**9**43 S/182/61/000/004/005/007 D038/D112

Stamping bottoms

from the pile-welded blank, 6-10 mm diam apertures were made in the carbon steel blank along the circumference whose diam equals $\frac{D(blank)}{2}$, or at a distance of 10-

20 mm from the blank edge, depending on the depth of the seam. Before welding, the blanks must be either straightened and pressed together or placed in a welding device (Fig. 2), and the edges of the carbon steel blanks dressed. The blank diameter must be 15-25 mm more than the standard diameter, depending on the depth of the weld, and the diameter of the titanium blank 10-15 mm less, in order not to interfere with the welding of the carbon-steel blanks. Blanks can be stamped in cold or hot state. Stainless or acid-proof steel central blanks must not be heated above 1100°C, and stamping must be completed not below 750-800°C, depending on the grade of steel. The BT 1-1 (VT1-1) titanium central blanks must not be heated above 700-750°C. The stamping must be completed at 500-550°C. To ensure proper stamping stability the thicknesses S_1 and S_3 of the outer blanks should be taken so that the ratios $\frac{Diam}{Diam}(blank)}{S_1}$ (outer blank)

Ordinary dies with a clamp can be used, and the gap between the die and the counter die should equal 0.1 of the thickness of the carbon steel blank, to avoid puckers and folds. After stamping, the bottoms (shallow cups) are undercut and separated. Card 2/4

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CIA-RDP86-00513R001549320003-4

27013 Stamping bottoms The described process was successfully introduced at a plant producing apparatus, where bottoms of different diameters and different materials were manufactured. The following staff members of the NIIKhiMASh Laboratory of Working by Pressure took part: Senior Engineer A.P. Golovanova and Senior Technician Ye.I. Maslov. There are 3 figures.

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549320003-4

S/184/62/000/005/002/003 D040/D113

AUTHORS: Shevelkin, B.N., Candidate of Technical Sciences; Kravchenko, L.L. and Golovanova, A.P., Engineers

TITLE: Pressability of Khl7T and Khl7N2 high-chromium steels

PERIODICAL: Khimicheskoye mashinostroyeniye, no. 5, 1962, 28-32

TEXT: The behavior of $\times 17T$ (Khl7T) and $\times 17H2$ (Khl7N2) Cr steels belonging to a class containing 17-25% Cr has been studied at NIIKhIMMASh in bending and extrusion, and in corrosive media after such working. The experiments were conducted so as to find substitutes for scarce acidproof Ni-Cr. steel grades used in the chemical industry. Changes in the mechanical properties and corrosion resistance of bent and extruded specimens were studied at various temperatures (-70 to $\pm 1180^{\circ}$ C) and in boiling acids. Both steels proved applicable under certain conditions: (1) Bending with slight strain is possible at above 15°C, while more complex shaping with more strain is possible only when heating is applied. The proper heating ranges for Khl7T and Khl7N2 steels are 1000-750°C and 1150-950°C respectively. (2) Heat treatment is needed after hot extrusion;

Card 1/2

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CIA-RDP86-00513R001549320003-4

Pressability of Khl7T and

S/184/62/000/005/002/003 D040/D113

for Kh17T the proper treatment is heating to 760-780°C, holding for 3-4 min per 1 mun thickness and cooling in air; Kh17N2 has to be quenched at 1100°C, held for 3-4 min per 1 mm thickness, cooled in oil, tempered at 680°C, held for 3-4 min per 1 mm thickness, and finally cooled in air; intercrystalline corrosion appearing in Kh17N2 after heating over 900°C can be eliminated by heating to 680°C, holding for 15-20 min per 1 mm thickness, and then cooling in air. The bending radii in cold bending should not be less than three thicknesses of metal for Kh17T, and five thicknesses for Kh17N2. In hot bending, the minimum radii should be two thicknesses of metal irrespective of the type of steel. There are 5 figures and 1 table.

Card 2/2

APPROVED FOR RELEASE: 08/09/2001

	s/137/63/000/003/014/016 A006/A101	
AUTHOR:	Shevelkin, B. N.	
TITLE:	The effect of different α -phase content in 1 X18 H9T (1Kh18N9T) steel and of α - and σ -phases in X18 H12M3T (Kh18N12M3T) steel upon pressure working ability	
PÉRIODICAL:	Referativnyy zhurnal, Metallurgiya, no. 3, 1963, 69, abstract 3I374 ("Tr. Vses. ni. i konstrukt. in-t khim. mashinostr.", 1960, no.34, 82 - 103)	
TEXT:	The author studied the effect of α - and σ -phases and of different	
working abil ness to inte the &-phase, ductility of phases do no	cooling conditions of 1Kh18N9T and Kh18N12M3T steel upon pressure ity, mechanical properties, general corrosion resistance and prone- prorystalline corrosion. It was established that a higher content of risen from 0 to 10%, increases the strength and does not reduce the the steel at room temperature and in a 700 - 800° C range; α and σ affect the mechanical properties of the steel after repeated heat- b) within the forging temperature range (1,150 - 1,180°C), and after	
working abil ness to inte the &-phase, ductility of phases do no	ity, mechanical properties, general corrosion resistance and prone- prorystalline corrosion. It was established that a higher content of risen from 0 to 10%, increases the strength and does not reduce the the steel at room temperature and in a 700 - 800° C range; α and σ at affect the mechanical properties of the steel after repeated heat-	

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CIA-RDP86-00513R001549320003-4

The effect of different...

S/137/63/000/003/014/016 A006/A101

cooling in different media. Under heating and cooling conditions used in hot machining, an increase of the α -phase up to 10% in 1Kh18N9T steel does not cause proneness to intercrystalline corrosion. α - and σ -phases (5 - 10%) in Kh18N12M3T steel increase the danger of arising intercrystalline corrosion after pressure working. Repeated heating to 1,150 - 1,180°C increase sharply the corrosion rate of 1Kh18N9T steel with α -phase and of Kh18N12M3T steel with α and σ -phases. Extended heating time increases the corrosion rate of these steel with α - and σ -phases. IKh18N9T and Kh18N12M3T steels, containing α - and σ -phases should be heat-treated after cold and hot bending operations. Bottoms can be punched out in cold and hot state out of 1Kh18N9T steel with α -phase to 5%. Kh18N12M3T steel with 10% σ -phase is not recommended for the punching of bottoms. Cold bending and punching of 1Kh18N9T steel with α -phase up to 10% and Kh18N12M3T steel with α -phase up to 5% do not oause proneness to intercrystalline corrosion.

N. Kalinkina

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: 08/09/2001

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	Galitskiy, B. A.; A	belev, M. M.; Kolosova, J., P.; To	ropov, V. A.; Shevelkin, B. N.	
	v khimicheskom m biblio. 2500 cc Ye. Ye. (Enginee publishing house	loys in the chemical engineering mashinostroyenii) Moscow, Mashgiz opies printed. Roviewer: Dombe, Ya or); Deputy editor: Ry*bakova, V. e: Tairova, A. L.; Technical editor proofreader: Piryazev, P. A.	, 1963. 263 p. 111us., u. I.; Editor: Skvortsov, I. (Engineer); Editor of the	an anna an Anna an Anna Anna an Anna
:	TOPIC TACS: Titani nium, forming of ti	um, titanium alloy , chemical eng itanium, welding of titanium	incering, machining of tita-	
	industrial establis connected with the technicians in indu ment. It may be of	E: This book was written for eng hments, design bureaus, and scient chemical engineering industry, as strial establishments utilizing c use also as a study aid for stud- te construction of chemical equipment	tific-research institutes well as for engineers and ' hemical apparatus and equip- ents in machine-design vuzes	
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CIA-RDP86-00513R001549320003-4

SHEVELKIN, B.N., kand.tekhn.nauk Use of titanium in the chemical machinery manufacture in Japan. Khim.mashinostr. no.4:38-41 Jl-Ag '63. (MIRA 16:9) (Japan --- Chemical engineering --- Equipment and supplies) (Titanium) 1 25.65

TREE IN THE PROPERTY AND INCOME

L 10711-63 EWF(q)/EWT(m)/BDS--AFFTC/ASD--JD ACCESSION NR: AP3001650 \$/0063/63/008/003/0317/0328 AUTHOR: Shvarts, G. L. (Candidate of technical sciences); Shevelkin, B. N. (Candidate of technical sciences); Toropov, V. A. (Candidate of technical sciences) Titanium?'a new material for chemical equipment TITLE: SOURCE: Vsesoyuznoye khimicheskoye obshchestvo. Zhurnal, v. 8, no. 3, 1963, 317-328 TOPIC TAGS: titanium, corrosion-resistance, chemical equipment ABSTRACT: Authors present a detailed description of titanium and its application as one of the materials used for chemical equipment. The article contains descriptions of titanium and its chemical compositions, its mechanical and physical prop-erties being manufactured in the SSSR and abroad and its best application as chemical equipment in different branches of the chemical industry. Titanium and its alloys at normal temperatures possess sufficient strength but are slightly less plastic than corrosion-resistant steels. The plasticity of titanium depends on the amount of the admixtures and alloying elements, the increase of which increases the strength and lowers the plastic properties of titanium. The most widely used Card 1/2

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	ACCESSION NR: AR4027679 \$/0276/64/000/001/V022/V022	, . 1	
	SOURCE: RZh. Tekhnologiya mashinostroyeniya, Abs. 1V123		
	AUTHOR: Shevelkin, B. N.		
	TITLE: Stamping of elliptical bottoms for apparatus from welded pack blanks		
	CITED SOURCE: Tr. Vses. ni. i konstrukt. in-t khim. mashinostr., vy*p 43, 1963, 66-69		
	TOPIC TAGS: elliptical stamping, stamping, welded pack blank, welded stamping blank	•	
*	TRANSLATION: The author describes the technology involved in the hot extrusion of thin-walled elliptical bottoms from Khl8N9T stainless steel, Ti and other materials with a ratio of the blank diameter to wall thickness on the order of 800-1000. To obtain high-quality bottoms (without corrugations, buckling, and folds), a composite blank is used. The blank consists of three discs, with a stainless steel disc sandwiched in the middle; the upper and lower discs are of St) steel. The disc edges are welded; the heating temperature in the middle		
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	CIA-RDP86-00513R001549320003-4
ACCESSION NR: AR4027677	\$/0276/64/000/001/0003/0003
SOURCE: RZh. Tekhnologiya mashinostroyeniya, Abs. 1	
AUTHOR: Shevelkin, B. No; Kravchenko, L. L.	
TITLE: A study of the pressure treatment of tentalu	a and niobius
CITED SOURCE: Tr. Vses. n1. 1 konstrukt. in-t khin 1963, 54-65	m. mashinostr., vy*p. 43,
TOPIC TAGS: tantalum, niobium, tantalum pressure treatment	eatment, niobium pressure
TRANSLATION: The authors give data on changes in the Ta and Nb upon heating from 20 to 300° and cooling for technological properties upon bending, roll forming, ing, and pipe flanging. On the basis of the results suggest minimum bending radii for Ta and Nb, as well their treatment. 6 illustrations. I. Gendling.	rom 0 to -70°, as well as extrusing, (tube) expand-
DATE ACQ: 03Mar64 SUB CODE: NL F	ENCL: 00

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<u>L 41332-65</u> $EVT(m)/EPF(c)/EVA(d)/EVP(t)/EVP(z)/EVP(b)$ Pad LJP(c) $UJW/$ JD/HV/JG/VB
ACCESSION NR: AR5000732 S/0277/64/000/009/0007/0007 32
SOURCE: Ref. zh. Mashinostroitel'ny*ye materialy*, konstr:ktsii i raschot detaley mashin. Gidroprivod. Otd. vy*p., Abs. 9.48.40
AUTHOR: Istrina, Z. F.; Krutnikov, A. N.; Shevelkin, B. N.; Shapiro, M. B.; Akshentseva, A. P.; Khimushin, F. F.; Frolikova.
Yo. M.; Belinkiy, A. L.
TITLE: <u>Corrosion</u> resistant properties of <u>chromium nickel</u> steels with lowered nickel content
CITED SOURCE: Tr. Vses. ni. i konstrukt. in-t khim. mashinostr., vy*p. 45, 1963, 76-93
TOPIC TAGS: corrosion resistance, chromium nickel steel, nickel containing alloy, metal corrosion/ steel <u>OKh21N5T</u> /steel <u>OKh21N6M2T</u> / steel <u>OKh17N5G9AB</u> , steel <u>IKh18N9T</u> , steel <u>IKh18N12M2T</u> /s
TRANSLATION: Results of an investigation of the structure, heat treatment, weldability, pressure working, and corrosion resistance of corrosion resistant steels with reduced nickel content and their
Card 1/2
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L 41332-65 ACCESSION NR: AR5000732 welded joints are presented, and the field of application of these sceaus of their corrosion resistance, steels OKh21N57, OKh21N6M2T, and OKh17N5G9AB can be used as substitutes for steels IKh16N9T and hroduction of caprolactam, adipic acid, dimethylterephthalate, citric acid, urea, nitric acid, and others. SUB CODE: MM ENCL: 00

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"APPROVED FOR RELEASE: 08/09/2001	CIA-RDP86-00513R001549320003-4
 APPROVED FOR RELEASE: 08/09/2001 L 57059-65 EPA(s)-2/EWT(m)/EPF(c)/EWA(d)/EWA(c) Pf-u/Pad IJP(c) MJW/JD/HW/WB/HM ACCESSION NR: AR5008973 SOURCE: Ref. zh. Metallurgiya, Abs. 11463 AUTHOR: Istrina, Z. F.; Krutikov, A. N.; She Akshentseva, A. P.; Khimushin, F. F.; Frolike TITLE: Properties of corrosion-resistant nic content CITED SOURCE: Tr. Vses. ni, i konstrukt. i 	MP(v)/T/EMP(t)/EMP(k)/EMP(z)/EMP(b)/ S/0137/65/000/001/1070/1070 669.15.018.85 46 2003, Ye. M.; Shapiro, M. B.; Dva, Ye. M.; Belinkiy, A. L. Skel-chrome steel with reduced <u>nickel</u>
76-93 TOPIC TAGS: metallurgy, ferrous metals, corr welding TRANSLATION: Austenite-ferrite OKh2IN5T, PKh OKh17N5G9AB of the austenite class were studi steels were quenched from 1000°, OKh17N5G9AB steels of the austenite-ferrite class can be Card 1/2 * PKh2IN5T Should be 1 KH	n21N5T and <u>OKh21N6M2T</u> steels and Led. The OKh21N5T and OKh21N6M2T from 1150°. Additional toughening of achieved by <u>age-hardening</u> at 475° for

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ACCESSION NR: AR5008973

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2 hours. The σ_{0} of OKh21N6M2T steel is increased from 45 to 51 kg/mm² and that of OKh21N5T steel to 50 kg/mm² by heat treatment, which produces martensite conversion Conditions of heat treatment in this case are: heating to 750°; cold working at -70° for two hours and age-hardening at 350° for two hours. The welding Conditions for the steels studied correspond to the parameters for steels of type 18-8 and 18-12. Heat treatment of OKh21N5T and OKh21N6M2T steels should be done at 1080--800°; for OKh17N17M5G9AB steel at 1080-900°. OKh21N5T and OKh21N6M2T steels have high corrosion resistance and do not have a tendency toward intercrystalline corrosion after quenching from 1000°, and the same is true of OKh17N5G9AB steel for quenching from 1150°. Seams welded with an austenite electrode are resistant to intercrystalline corrosion.

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APPROVED FOR RELEASE: 08/09/2001

TOROPOV, V.A., kand.tekhn.nauk; <u>SHEVELKIN, B.N.</u>, kand.tekhn.nauk; SAMOCHATOV, I.M., inzh.; GERASIMENKO, G.I., inzh.

Technology of the manufacture of welded apparatus lined with thin-sheet, corrosion-resistant steel. Svar.proizv. no.2:26-27 F 164. (MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy i konstruktorskiy institut khimicheskogo mashinostroyeniya.

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	$\frac{L\ 7009-65}{ASD(m)-3} Ewr(m)/EPF(n)-2/EwP(k)/EwP(q)/EwP(b) Pf-4/Pu-4 ASD(f)/$
-	ACCESSION NR: AP4045199 S/0314/64/000/001/0025/0022
_	AUTHOR: Shevelkin, B. N. (Candidate of technical sciences); Krav- toke chenko, L. L. (Engineer)
	TITLE: Investigation of pressure working of tantalum and miobium
	SOURCE: Khimicheskoye i neftyanoye mashinostroyeniye, no. 1, 1964,
	TOPIC TAGS: tantalum, niobium, tantalum sheet cold forming, niobium sheet cold forming, tantalum stamping, niobium stamping, tantalum flanging, niobium flanging, optimum <u>heat treatment</u> 10
	ABSTRACT: Pressure working of 99.3Z-pure tantalum and 98.9Z-pure cast and rolled niobium sheets, 1 mm thick, has been investigated. In pre- liminary tensile tests at 20, 100, 200, and 300C and particularly in
	exhibited a sharp anisotropy which, however, was greatly reduced, and in the case of cast niobium completely eliminated, by annealing at 1450-1500C for one hour in a mount of 000
	one hour in a vacuum of 0.00005 mm Hg. The heat treatment also sharply

CIA-RDP86-00513R001549320003-4

L 7009-65 ACCESSION NR: AP4045199 improved the ductility and decreased the strength of both metals. The anisotropy of the mechanical properties and its elimination by the heat treatment described above was also observed in the cold roll forming of shells 25 and 30 mm in diameter and 90 and 25 mm long. Shallow covers, 50 and 125 mm in diameter, have been successfully cold stamped from untreated tantalum and cast niobium using graphite lubricants. But stamping covers from HIG-welded blanks of tantalum and cast or sintered miobium was unsuccessful without preliminary heat treatment of the blanks. Preliminary heat treatment was also necessary for tube expanding and flanging. Annealing at 1200C for one hour in a vacuum of 0.00004 mm Hg permitted the expansion of tantalum tubes by 2.3-3.12, of cast niobium tubes by 1.95-2.32, and of sintered niobium tubes by 1.17-1.56%. The corresponding figures for cold flanging were 60, 36, and 32%. Corrosion resistance of all pressureworked specimens was not affected by the sustained plastic deformation Orig. art. has: 3 figures and 3 tables. ASSOCIATION: none Card 2/3.

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ACCESSION NR: AP4025738	s/018li/6li/000/001/0030/0032		
AUTHORS: Shevelkin, B. N. (Candidate of (Candidate of technical sciences); Geras			
TITLE: Titanium lining of containers made		•	
SOUNCE: Khimicheskoye mashinostroyeniye,			
TOPIC TAGS: carbon steel, St.3 carbon ste corrosion, metal corrosion prevention, pla welding, contact-roller welding, welded co detection, forging, hot forging, fagot wel	el, titanium plate, VT-l titanium, ting, welding, resistance welding, seam		
ABSTRACT: This study made it possible is procedure for installing unattached titanin used by the chemical industry. A sectional steel) with 400-liter capacity is presented techniques for welding the linings (6-8 mm are described. Lids and bottom parts of su consisting of two steel disks with a titani	tin Fig. 1 on the Enclosure. Different thick) to various parts of the container		
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ACCESSION NR: AP4025738		-	
stamped (or rolled) from argon-a was resorted to when these collar mm in diameter) were made of tits contact-roller procedure and were welding with infusible VT-15 elect leak detection in the containers, testers. The authors claim that	d adherence of the lining to carbon steel. The of titanium sheets 0.5 mm thick, and called for chnique with a 4-6 mm overlap. Collars were rc welded titanium sheet rings. Seam-welding rs were attached to the shells. The outlets (50 anium 0.5 mm thick. They were welded by a modified e attached to the flanges by automatic argon-arc strodes. Vacuum testing technique was used in the best results were obtained with helium leak the results obtained by them are not inferior to ng alone. They state that the resistance simpler of the two, should be applied more often.		
ASSOCIATION: none			
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	ACCESSION NR: AP4013293 S/0135/64/000/002/0026/0027
	AUTHORS: Toropov, V. A. (Candidate of technical sciences); <u>Shevelkin</u> , B. N. (Candidate of technical sciences); Samochatov, I. M. (Engineer); Gerasimenko, G. I. (Engineer)
	TITLE: Technology of producing welded devices lined with thin corrosion resistant steel plates
	SOURCE: Svarochnoye proizvodstvo, no. 2, 1964, 26-27
i r	TOPIC TAGS: welding, stamping, lining, corrosion resistant steel, Kh18N9T steel, OKh18N1OT steel, St3 steel, steel container
	ABSTRACT: The article presents a description of the technological procedures used in preparing various parts of cylindrical welded devices for the chemical industry. These parts (up to 1 m in diameter) were lined with corrosion-resistant steel (Khl8N9T and OKhl8N1OT). In this type of devices the lining was not welded to the steel base; these parts cannot be used for procedures requiring vacuum. The tech- nique used in producing them secured high corrosion stability of welded connections in the steel lining at its minimum thickness. An example of such a device is shown
	Card 1/3

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ACCESSION NR: AP4013293		
either solid or consisted	e. Here the frame and the lid were a ing material used consisted of two ca yer of corrosion-resistant steel. The of two sheets welded together. The aving of 80 to 90% in steel. Orig. a	arbon steel sheets
ASSOCIATION: none		
SUBMITTED: 00	DATE ACQ: 26Feb64	ENCL: O1
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CCESSION NR: AP4046171	\$/0314/64/000/003/0033/0034	
UTHOR: <u>Shevelkin, B. N.(</u> Candidate	e of technical sciences); Kraychenko. L. L.	
iTLE: Investigation of the press Kh23N28H3D3T	ure machinability of the clad steel St.3-	
OURCE: Khimicheskoye i neftyanoy	e mashinostroyeniye, no. 3, 1964, 33-34	
OPIC TAGS: steel, <u>clad steel</u> , st ending, drawing, punching, guillo 0Kh23N28M3D3T	cel sheat, farrite, peerlite, ductility, otine cutter, peeling, rolling / steel 3, steel	
ad steel (base sheet of St.3: d nnealed at 900C for 2 hours and q <u> khimmash.</u> The microstructure of <u> khimmash.</u> The microstructure of	nological properties of 10-mm-thick sheets of mm; cladding sheet of 0Kh23N28M3D3T: 2 mm), uenched in air, were investigated at the of the clad steel is illustrated. The structure f eustenite greins, at the boundaries of which	
second phase consisting of small consists of small ferrite and pear properties of this clad steel was	I carbide particles is found; the base metal St.3 rlite grains. The variation in the mechanical investigated during short-term heating and cool- yield point decreased on heating and increased avior for plasticity. The shear strength in the	

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L 12838-65 2 ACCESSION NR: AP4046171 cold is 15.7 kg/mm², and the maximum peeling strength is 21.4 kg/mm². The effect of prolonged heat treatment on the mechanical and plastic properties of the clad steel was also investigated, showing that repeated heating to 1000C does not decrease the plasticity. Bending tests were made in the cold and over a temperature range of 100-1000C on samples cut transversely to the casting direction. The samples were bent to 180° by stamps with a bending radius of 2--16 mm. The minimum permissible bending radii were determined on both samples clad from outside and samples clad from inside. Drawing of the clad steel was investigated by punching spherical cup-like samples with a diameter of 200 mm in the cold on a hydraulic press under a pressure of 200 tons, from both one-piece and welded (twopiece) ingots. No defects were found in the castings, and the bonding strength of the two layers remained unchanged. The degree of deformation increased from the spherical bottom part toward the edge and reached 25.7%. It was established that drawing of St.3-OKh23N28M3D3T clad steel can be accomplished in the cold from either one-piece or weided ingots. The clad steel was then cut with a guillotine cutter; cutting on the cladding layer produced no peeling, but after cutting, the edges had to be treated. A Rolling had to be carried out in the cold. "The metallographic tests were carried out under the direction of A. P. Akshentseva." Orig. art. has: 4 figures and 1 table." 2/3Card

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•	<u>I. 32815-66</u> EWT(m)/EWP(k)/EWP(t)/ETI IJP(c) JD/HW ACC NR: AP6012588 SOURCE CODE: UR/0314/66/000/004/0039/0042 <i>3S</i> AUTHOR: <u>Golovanova</u> , A. P. (Engineer); <u>Shevelkin</u> , B. N. (Candidate of technical <i>B</i> Sciences) ORG: none	
	TITLE: Special features in the pressure treatment of two-layer metals SOURCE: Khimicheskoye i neftyanoye mashinostroyeniye, no. 4, 1966, 39-42	
*	TOPIC TAGS: sheet metal, metal bonding, metal pressing, metal stamping ABSTRACT: The pressure treatment of two-layer metal <u>sheets</u> is connected with numerous features related to the differences in the physical and mechanical properties of the basic and cladding layers. The present article offers numerous data collected during tests carried out at the <u>NIIkhimmash</u> . They cover 1) the elastic limits, the changes in the elastic limits and yield points, the relative contraction and elongation, the impact viscosity, and the ultimate strength of the joint of the sheets of two-layer metals as a function of temperature; 2) the initial and final stamping temperature for various <u>cladding</u> layers; 3) cutter parameter	
	Card 1/2 UDC: 621.9-419:620.16	

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SHEVELKIN, D. S.

B. V. RYKUNIN and D. S. Shevelkin, <u>Uproshchennye Samodel'nyye pribory/Simplified</u> Homemade Apparatus/, second edition (From the series "Opyt perodovogo uchitelya" /Experience of the Progressive Teacher/), Uchpedgiz, 6 sheets

bescribes simplified homemade apparatus that the pupils can build themselves with a minimum expenditure of materials and money. A detailed sketch showing dimensions is appended to the description of each apparatus.

The apparatus described in this book allow the teacher to make all the basic demonstrations and loboratory work called for by the syllabus for the sixth and seventh grades.

SO: U-61,72, 12 Nov 1951

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SHEVELKIN, Dmitriy Sergeyevich; RYKUNIN, Boris Vasilyevich; MIKHALKEVICH, T.B., redaktor; RYBIN, I.V., tekhnicheskiy redaktor.
[Laboratory work in physics with homemade instruments (classes 6 and 7); teacher's manual. Laboratornye raboty po fizike na samodel'nykh priborakh (VI-VII klassy); posobie dlia uchitelia. Moskva, Gos.uchebno-pedagog.izd-vo Ministerstva prosveshcheniia RSFSR, 1955. 77 p. (Physics--Laboratory manuals) (MIRA 9:1)

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SHEVELKIN, V. D. (g. Ivanovo)

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Experimental evaluation of the dimensions of molecules. Fiz. v shkole 22 no.4:61-62 J1-Ag '62. (MIRA 15:10)

(Molecules) (Physics--Experiments)

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2. USSR (600)

- 4. Links and Link Motion
- 7/ Designing a four-link, hinged me chanism on the basis of precise calculation. Trudy Sem po toch mash No. 3. 1952.

9. Monthly List of Russian Accessions, Library of Congress, <u>April</u> 1953, Uncl.

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Abs Jour	:	Referat. Zhurnal Khimiya, No 2,	1958, 3731.	:	-
Author	:	M.S. Merkulova, S.A. Potapova, J Chastukhina.	T.S. Shevelkina, V.I.		- E
Irst	:				
Title	:	Distribution of Lead and Padium and Crystals of Anisomorphous Se	Isotopes between Solution alts.		
Orig Pub	:	Za. fiz. khimii, 1957, 31, No 5,	, 1056-1062.		
Abstract	:	The distribution of Fb(TaB) and solid phase in $K_2SO \neq -FbSO = -FbSO$	- H_2O , K_2SO_4 - $RaSO_4$ - H_2O and		
		K_CrO4 - PbCrO4 - HaC systems we distribution equilibrium was def	tarmined in 10 minutes. The		
		crystallization factor D does no makrocomponent separated in the	ot depend on the amount of the		
		laver in en soid medium than in	a neutral. D depends very		
		much on the temperature. If Bi	ions were introduced into		
		the sulfate system, or Al ³⁷ ion	ns into the chromate system,		
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	USSR/Aeronautics - Aircraft Corrosion		
	"Preventive Measures Against Corrosion of Aircraft Metal Constructions," Maj P. Shevel'ko	•	
	"Vest Vozdush Flota" No 11, pp 55-58		•
	Describes electrochem and chem corrosion occur- ring on aircraft parts; outlines types of corro- sion according to character of metal destruction		
	and suggests preventive measurer and handling tain rules for servicing airplane and handling parts, specifies methods for renewal of damaged		
	or worn lacquer-paint coatings.		
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Murza, I. S.; <u>Shevel'ko</u> , <u>P. S.</u> ; <u>Braga, V. G.</u> ; <u>Alekseyev, B. A.</u> ; <u>Gorbachev, F. A.</u> ; <u>Suknanov, S. S.</u> Handbook for an <u>aircraft technician</u> (Spravcchnik aviatsionnopo tekhnika), 2d ed. rev., Moscow, Voyenizdat, 1964, 510 p. illus., index. 35,000 copies printed.	
TOPIC TAGS: aircraft structure, aircraft material, aviation fuel, aviation lubricant, aircraft radio equipment, thermodynamics, gasdynamics, aviation engine	÷.
PURPOSE AND COVERAGE: This manual is intended for aircraft technicians with sec- ondary general or aviation technical education. It can also be useful for flight mechanics in the Air Force and other aviation specialists. The handbook contains brief information on the general disciplines physics, thermodynamics, gaso-	*
dynamics, electrical envineering, radio envineering and the special disciplination attended a	
tion engines, aviation fuels and lubricants	
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Ch. VII. Aerodynamics 224			
Ch. VIII. Aircraft strength	310	يوي والهمية من يعني ترجي مع من مع من من مع المراجع . وقد المراجع المراجع المراجع المراجع المراجع . وقد المراجع المراجع المراجع المراجع .	
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FILIPPOV, Vasiliy Vasil'yevich, inzh.-polkovnik; SHEVEL'KO, P.S., inzh.polkovnik, retsenzent; DRUZHINSKIY, M.V., inzh.-podpolkovnik, red.; SRIBNIS, N.V., tekhn. red.

[Fighting negative thrust occuring in turbe-prop engines; characteristics of the operation of an airplane with a turbo-propengine] Kak letchiku borot'sia s otritsatel'noi tiagoi TVD; ob osobennostiakh raboty i ekspluatatsii na samolete turbovintovogo dvigatelia. Moskva, Voen. izd-vo M-va obor. SSSR, 1961. 57 p. (MIRA 14:9)

(Airplanes-Turbine-propeller engines)

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Abs Jour: Ref Zhur-Biol., No 5, 1958, 22033.	
Author : Shevelko, E. A. Institute of Experimental Med. Acad. Med.	
fection. med. Akad. Med.	
thenitic intoxication	
Abstract: The experimental diptheritic intoxication in rabbits is characterized by biphasic behavior rabbits is characterized by biphasic behavior of the T ⁰ curve; an elevation of 10 -20 in the of the T ⁰ curve; an elevation of 10 -20 in the first and second day followed by a lowering of first and second day followed by a lowering of first and second day followed by a lowering of ing in a heat chamber (36-37 ⁰) for a period of	
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т-3 USSR/Human and Animal Physiology. Thermoregulation. Abs Jour: Ref Zhur-Biol., No 12, 1958, 55359. Author : Shevel'ko, Ye. A. : The Influence of Overheating Upon the Development of Assimilative Thermoregulative Reaction in Rabbit Inst Title Fever. Orig Pub: V sb.: Fiziol. Mekhanizmy Likhoradochn. reaktsii, L., Medgiz, 1957, 40-46. Abstract: When feverish rabbits (fever was induced by administering pyrogenic substances, paratyphoid bacteria, diphteria bacteria, and (X -dinitrophenol) were subjected to overheating which lasted $l\frac{1}{2}$ -3 hours, their rectal temperature during this Card : 1/2

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CARE STORE THE REPORT OF A DAMAGE AND A DAMA THE A

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т USSR/Hamon and Animal Physiology. Thermoregulation. Nos Jour: Ref Mur-Biel., No 20, 1958, 93053. Luthor : Bystrova, L.N., Shevellio. Ye. A. : Influence of Fever Coused by Prolonged Repeated Introinst Title duction of Pyrogenal upon the Rabbit Organism. Orag Pub: V sb.: fiziol. melhanizay likhoradocha. reaktsil, L., Medgiz, 1957, 329-332. ibstract: I study was node of the influence of repeated paroxyms of fever in rabbits provoked by a 25 - 27-day course of intravencus injections of a purified bacterial polysaccharide, Pyrogenal (I). 5 per hg of I was introduced into a physiological solution. After 1 hour the rectal temperature rose in all of the anirals, and it became normal after 3 - 6 hours. The degree of : 1/3 Jard

USUR/ha on and Inital Physiology. Thermoregulation.

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93053.

temperature elevation and the continuance of the fever reaction did not depend on the number of previous injections of I, but several phases were noted in the degree of elecation depending on the day of injection of I. From the 6th through the 10th day the reaction was least intensive, and from the 16th through the 20th it was most pronounced. Introduction of a dose of I, increased 10 - 50-fold, did not evoke any signs of intoxification. The gas metabolism did not increase. The maximal elevation in the temperature of the skin of the ear and the back occurred at the moment of the lowering of the rectal temperature. Judging by changes in the temperature of the skin, the basis of the elevation in the body temperature under the influence of I was the restricted emission of heat. Further experi-

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Т

SHEVEL'KO, Ye.A.

C.GILLAN

Thermal regulation and febrile reaction in puppies at various Thermal regulation and reprile reaction in pupped at 6:728-734 stages of postnatal ontogenesis. Fiziol. zhur. 47 no.6:728-734 (MIRA 15:1) Je '61.

1. From the Department of General Pathology, Institute of Experimental Medicine, Leningrad. (BODI TEMPERATURE_REGULATION) (FEVER)

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CIA-RDP86-00513R001549320003-4

SHEVEL'KO, Ye.A. Comparative characteristics of thermoregulation and pyrogenic activity in mice from the gray and white race; data on comparative physiology and pathology of thermoregulation. Fiziol.zhur. 48 no.6:748-753 Je '62. (MIRA 15:8) 1. Laboratoriya obshchey patologii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad. (BODY TEMPERATURE--REGULATION)

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set gony of pyrogen reactivity in connection with age-related formation of the heat-regulation function. Fiziol, zhur. 51 (MIRA 18:10) 110,7:877-883 165.

1. Otdel sravnitel'noy fiziologii i otdel obshchey patologii Instituta eksperimental noy meditsiny ANN SSSR, Leningrad.

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AU	UTHOR: Shevel'ko, Ye. A	C Emerimental Medicine.	AMN
		arative Physiology, Institute of Experimental Medicine, avnitel'noy fiziologii Instituta eksperimental'noy	
00	RG: Department of Compe	arative Physiology, Institute of Mapor markenental' noy ravnitel'noy fiziologii Instituta eksperimental' noy artment of General Pathology, Institute of Experimental	
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	edicine, AMN SSSR, Leni	ngrad (Otdel obshchey patologii instituti and	
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1 1	by adult animals, was m	of showing of a nonspecific	
1 4	regulation prediminated	i their response is the the On consumption increased	
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	together with an abnorm	as shown by the fact that the 02 conservation in the al increase (as compared with adult rabbits) in the transformation accompanied by regulation of heat loss	
	body temperature. A fe	al increase (as compared with addit factors) ver reaction accompanied by regulation of heat loss UDC: 612.57	: او است
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	evel'kov, I.K., Mining Engineer	
115	uys of Placing Dumptrucks for Loading by Excavators (Sposoby stanovki avtosamosvalov pod pogruzku ekskavatorom)	
PERIODICAL: Go	ornyy zhurnal, 1958, Nr 7, pp 71-72 (USSR)	
tr ar wa f(v; t b	he author calculated the time used by an excavator to load he dumptruck. The truck was placed in different positions nd at different angles. The author found that the best way nd at different angles. The author found that the best way ormed an angle of 90° with the axis of the arm of the exca- ormed an angle of 90° with the axis of the arm of the exca- ator. He also found that the truck must be placed so that the excavator could turn to the right. Movements to the left increased the loading time and often damaged the truck by plows of the scoop against the cab. There are 2 drawings and 2 tables.	
	Shedokskiy gipsovyy rudnik (The Shedok Gypsum Mine)	
Card 1/1	1. Loaders-Test results	

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SHEVEL'KOV, V.F.: MAL'TSEV, A.A.
Electron emission and absorption spectra of vapors of oxygen compounds of gallium and indium. Teplofiz. vys. temp. 3 (MIRA 18:8) no.3:486-487 Wy-Je '65.
1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

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s/0294/64/002/004/0650/0653 ACCESSION NR: APLOLUS32 AUTHORS: Malitsev, A. A.; Shevel'kov, V. F. TITLE: Infrared absorption spectra of Al20, Ga20, In20, and Al2S molecules SOURCE: Teplofizika vy*sokikh temperatur, v. 2, no. 4, 1964, 650-653 TOPIC TAGS: absorption band, absorption spectrum, aluminum oxide, indium, gallium, oscillation/GOI instrument, NGU instrument ABSTRACT: The absorption spectra of aluminum, gallium, and indium suboxides together with aluminum subsulfide were studied experimentally in their vapor phase. The spectra were measured on the GOI instrument in the wavelength region 230-600 cm⁻¹ in Professor B. S. Neporent's laboratory and in the region 600-2000 cm⁻¹ on the MGU instrument of the faculty of chemistry. The Al₂O₃ + LAl mixture shows only one absorption band with a maximum at 950 cm⁻¹. In the Ga₂O and In₂O spectra three absorption bands are noticeable: 420, 770, 1140 cm-1 for gallium oxide and 360, 680, 940 cm-1 for indium oxide. Finally, Al₂S₃ + 4Al shows one wide absorption band at 430 cm⁻¹. In the Al₂O, Ga₂O, and In₂O absorption bands 1/2 Card

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he maxima at 950, 770, and 680 he double-atom molecules AlO, inear geometrical configuratio onfigurations of GapO and TraO	ins of Alo and A	he absorption results show that	t the
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