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CUNTRY OF INFOUSSR OURCEKFIN. GETERGTSIKL. SOEDIN. 1970, (3), 412-14 ATE PUBLISHED	CHLOREMETHYLPYRILAZINC UTHOR-(04)-NUVITSKIY, K.YU.,	SADOVAYA, N.K., KASYANDVA, YE.F., SEMINA,
ATE PUBLISHED	CUNTRY OF INFCUSSR	
UBJECT AREASCHEMISTRY TOPIC TAGSORGANIC SYNTHESIS, HETEROCYCLIC NITROGEN COMPOUND, EXCHANGE REACTION, THIONYL CHLORIDE, AMINE, ORGANIC AZINE COMPOUND CONTROL MARKINGNO RESTRICTIONS DECUMENT CLASSUNCLASSIFIED PROXY REEL/FRAME3001/0228 STEP NOUR/0409/70/000/003/0412/0414	GOURCE-KHIN. GETERGTSIKL. SO	EDIN. 1970, 131, 412-14
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CIAC ACCESSION NOAPO126011 UNCLASSIFIED	DECUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME-3001/0228	STEP NDUR/0409/70/000/003/0412/0414
	CIRC ACCESSION NOAP0126011	CLASSIFIED

2/3 010 CIRC ACCESSION NDAPD126011 ABSTRACT/EXTRACTUUI GP-O- ABSTRACT. TO A SOLN. CF 15 ML SOCL SUB2 IN ABSTRACT/EXTRACTUUI GP-O- ABSTRACT. TO A SOLN. CF 15 ML SOCL SUB2 IN ANDYO. CHCL SUB3 WAS ADDED A SCLN. OF 12 G I (R EQUALS OH) IN 60 ML ANDYO. CHCL SUB3 AND THE WHOLE STIRRED 2 HR TO YIELD BAPERCENT 1.HCL (R ANDYO. CHCL SUB3 AND THE WHOLE STIRRED 2 HR TO YIELD BAPERCENT 1.HCL (R ANDYO. CHCL SUB3 AND THE WHOLE STIRRED 2 HR TO YIELD AND ML ANHYO. WHOH, HECH WAS ADDED DROPWISE TO MEONA (FROM 1.84 G MAJ) IN 30 ML ANHYO. WHOH, AND THE WHOLE STIRRED 30 MIN AT ROUM TEMP. AND REFLUXED 4-5 HR TO YIELD AND THE WHOLE STIRRED 30 MIN AT ROUM TEMP. AND REFLUXED 4-5 HR TO YIELD AND THE WHOLE STIRRED 30 MIN AT ROUM TEMP. AND REFLUXED 4-5 HR TO YIELD OBT AINED 55P LRCENT I (R EQUALS OFT), B SUB1 104-150EGREES, D PRIME20 1.0978 N 76P ERCENT I (R EQUALS OFT), B SUB1 103-90EGREES (AQ. ETOH). TO 1.0543, N PRIME20 SUBD 1.4990; PICRATE M. 103-40EGREES (AQ. ETOH). TO 1.0543, N PRIME20 SUBD 1.4990; PICRATE M. 103-40EGREES (AG. ETOH). TO 1.0543, N PRIME20 SUBD 1.4990; PICRATE M. 103-40EGREES (AG. ETOH). TO 1.0543, N PRIME20 SUBD 1.4990; PICRATE M. 103-40EGREES (AG. ETOH). TO 1.0543, N PRIME20 SUBD 1.4990; PICRATE M. 103-40EGREES (AG. ETOH). TO 1.0543, N PRIME20 SUBD 1.4990; PICRATE MAS ADDED DROPWISE AT 45-500EGREES AN EMULSIGN OF C.69 G NA IN 2 ML PHME WAS ADDED DROPWISE AT 45-500EGREES AN EMULSIGN OF C.69 G NA IN 2 ML PHME WAS ADDED ROPWISE AT 45-500EGREES AN EMULSIGN OF C.69 C NA IN 2 ML PHME WAS ADDED ROPWISE AT 45-500EGREES AN EMULSIGN OF C.69 (IN ANY OF 2.5 G II.HCLI NND 1.2 G (H SUB2 M 112-13DEGREES (ETCH). A MIXT. OF 2.5 G II.HCL NND 1.2 G (H SUB2 M. SUB2 CS IN 300 ML ANNYO. ME SUB2.2HCL), M. B7+30EGREES (DECOMPN.) NSUB2 CS IN 300 ML ANNYO. ME SUB2.2HCL), M. B7+30EGREES (DECOMPN.) SATD. K SUB2 CO SUB3 SOLN. GAVE 94PERCENT I IR EQUALS SHI. SATD. K SUB2 CO SUB3 SOLN. GAVE 94PERCENT I IR EQUALS SHI. SATD. K SUB2 CO SUB3 SOLN. GAVE 94PERCENT I IR EQUALS SHI.	2/3 010 CIRC ACCESSION NOAP0126011 ABSTRACT/EXTRACT(U) GP-O- ABSTRACT. TO A SOLN. CF 15 ML SOCL SUB2 IN ABSTRACT/EXTRACT(U) GP-O- ABSTRACT. TO A SOLN. CF 15 ML SOCL SUB2 IN ABSTRACT/EXTRACT(U) GP-O- ABSTRACT. TO A SOLN. CF 15 ML SOCL SUB1 IN 60 ML ADSTRACT/EXTRACT(U) GP-O- ABSTRACT. TO A SOLN. OF 12 G I (R EQUALS OH) IN 60 ML 20 ML ANHYL CHCL SUB3 WAS ADDED A SGLN. OF 12 G I (R EQUALS OH) IN 60 ML ANHYD. CHCL SUB3 AND THE WHOLE STIRRED 2 HR TO YIELD 81PERCENT I.HCL (R ANHYD. CHCL SUB3 AND THE WHOLE STIRRED 2 HR TO YIELD 81.98 EQUALS CL) (II.HCL), M. 121-1.5DEGREES (ETOAC). THIS (3.3 G) IN 30 ML HEOH WAS ADDED DROPWISE TO MEONA (FROM 1.844 G NA) IN 30 ML ANHYD. MEOH, MEOH WAS ADDED DROPWISE TO MEONA (FROM 1.844 G NA) IN 30 ML ANHYD. MEOH, MEOH WAS ADDED DROPWISE TO MEONA (FROM 1.844 G NA) IN 30 ML ANHYD. MEOH, MEOH WAS ADDED DROPWISE TO MEONA (FROM 1.844 G NA) IN 30 ML ANHYD. MEOH, MEOH WAS ADDED DROPWISE TO MEONA (FROM 1.844 G NA) IN 30 ML AND THE WHOLE STIRRED 30 MIN AT ROOM TEMP. AND REFLUXED 4-5 HR TO YIELD AND THE WHOLE STIRRED 30 MIN AT ROOM TEMP. AND REFLUXED 1.0978 N 76PERCENT I (R EQUALS OME), B SUB11 114+15DEGREES, D PRIME20 1.0978 N 76PERCENT I (R EQUALS OME), B SUB11 114+15DEGREES, D PRIME20 GBT AINED 55PERCENT I (R EQUALS OET), B SUB7 103-9DEGREES (AQ. ETOH). TO GBT AINED 55PERCENT I (R EQUALS OET), B SUB7 103-9DEGREES (AQ. ETOH). TO 1.0543. N PRIME20 SUBD 1.4990; PICRATE M. 103-4DEGREES (AQ. ETOH). TO 1.0543. N PRIME20 SUBD 1.4990; PICRATE M. 103-4DEGREES (AQ. ETOH). TO 1.0543. N PRIME20 SUBD 1.4990; PICRATE M. 3.3G II.HCL) IN PHME 3.3 G PHSII. STIRRING CUNTINUED 4 HR, NI (FROM 3.3G II.HCL) IN PHME 3.3 G PHSII. STIRRING CUNTINUED 4 HR, ON A BOILING WATER BATH TO YIELD ADDED. AND THE WHOLE HEATED 2 HR ON A BOILING WATER BATH TO YIELD ADDED. AND THE WHOLE HEATED 2 HR ON A BOILING WATER BATH TO YIELD M. 112-13DEGREES (ETCH). A MIXT. OF 2.5 G II.HCL AND 1.2 G (H SUB2 M. 112-13DEGREES (ETCH). A MIXT. OF 2.5 G II.HCL AND 1.2 HELD M. 112-13DEGREES (ETCH). A MIXT. OF
	N)SUB2 CS IN SOUTHLY SCIENTINH SUB2.2HCL), M. IDT ONG WATER BATH WITH 92PERCENT I IR EQUALS SCIENTINH SUB2.2HCL), M. IDT ONG WATER BATH WITH (HEXANE MEGH). THIS (2.5 G) HEATED 1 HR ON A BOILING WATER BATH WITH (HEXANE MEGH). THIS (2.5 G) HEATED 1 HR ON A BOILING WATER BATH WITH SATD. K SUB2 CO SUB3 SOLN. GAVE 94PERCENT I IR EQUALS SHI. SATD. K SUB2 CO SUB3 SOLN. GAVE 94PERCENT I IR EQUALS SHI.



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020	CLASSIFIED EMICAL SEISMIC	DETECTORS -U-	
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COUNTRY OF INFOUSSR SOURCEMOSCOW, IZVESTIYA AKADE	MII NAUK SSSR,	FIZIKA ZEMLI, N	0 2, 1970, PP
SOURCE-MOSCOW, IZVESTITA AND 81-87 DATE PUBLISHED70			
SUBJECT AREASEARTH SCIENCES TOPIC TAGS-SEISMOLOGIC INSTRU	AND OCEANOGRAPH	LON, ELECTROCHEM	CAL PROPERTY, RACTION
TOPIC TAGSSEISMOLOGIC INSTRU BUREHOLE, SEISMIC SUUNDING,	SEISMIC REFLEC	I IUM Jun Kanne	
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DOCUMENT CLASSUNCLASSIFIED PROXY REEL/FRAME1991/0729	STEP NOU	R/0387/70/000/00	2/0081/0087
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÷. PROCESSING DATE--090CT70 UNCLASSIFIED 020 2/3 CIRC ACCESSION NO--AP0110456 SINCE THE SPRING OF 1965 THE INSTITUTE OF PHYSICS OF THE EARTH AND INSTITUTE OF ELECTROCHEMISTRY HAVE ENGAGED IN JOINT EXPERIMENTAL WORK FOR EVALUATING THE PUSSIBILITIES OF ٤. USING ELECTROCHEMICAL CONVERTERS FOR REGISTERING SEISMIC USICLLATIONS. IT. IS EMPHASIZED THAT ONLY THE FIRST STEPS IN THIS DIRECTION HAVE BEEN TAKEN, ALTHOUGH THE POSSIBILITIES ARE CLEAR. THE ELECTROCHEMICAL SEISMIC DETECTOR HAS A SOLID HOUSING WHICH HOLDS A SENSING ELEMENT, CONSTITUTING AN ELECTROCHEMICAL CONVERTER. IT CONSISTS OF A CYLINDRICAL PLASTIC CONTAINER TO WHOSE OPPOSITE SIDES ELASTIC MEMBRANES ARE WITHIN THE SENSOR THERE IS A PARTITION WITH AN OPENING WHICH DIVIDES IT INTO TWO CHAMBERS. THE SENSOR IS FILLED WITH AN ELECTROLYTE ATTACHED. WHICH TOGETHER WITH THE MEMBRANE AND THE CHANNEL FORMS A HECHANICAL PLATINUM GRID ELECTRODES ARE INSERTED IN THE OSCILLATORY SYSTEM. CHANNEL. THE ELECTRODES TOGETHER WITH THE ELECTROLYTE CONSTITUTE A 1 REDOX SYSTEM. THE ELECTROCHEMICAL SEISMIC DETECTOR USED IN THE EXPERIMENTS IS A CYLINDER 40 MM IN LENGTH AND 30 MM IN DIAMETER AND THE SENSOR IS PARAMETRIC. IN THE ABSENCE OF A REIGHS ABOUT 70 G. USEFUL SIGNAL A D-C CURRENT FLOWS THROUGH IT. WITH THE APPEARANCE OF FORCED OSCILLATIONS THE SENSOR HOUSING TOGETHER WITH THE ELECTRODES OSCILLATES RELATIVE TO THE FLUID IN THE CHANNEL AND A VARIABLE COMPONENT, WHOSE FREQUENCY IS EQUAL TO THE FREQUENCY OF THE FORCED OSCILLATIONS, AND WHOSE AMPLITUDE IS PROPORTIONAL TO THE AMPLITUDE OF THE FURCED OSCILLATIONS, APPEARS IN THE SENSOR CIRCUIT. UNCLASSIFIED

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230003-7 UNCLASSIFIED TITLE--ELECTROCHEMICAL SEISMIC RECEIVER -U-AUTHOR -- NOVITSKIY, M.A., SIROTINSKIY, YU.V. 90.4 S. A. COUNTRY OF INFO--USSR SOURCE--MOSCOW, PRIRODA, NO. 1, 1970, P 118 DATE PUBLISHED-----70 SUBJECT AREAS--EARTH SCIENCES AND OCEANOGRAPHY TOPIC TAGS--SOLION, ELECTROLYTE, CAPILLARY, CATHODE, ANODE, EARTHQUAKE, VIBRATION, ELECTROCHEMICAL EFFECT, SEISMOLDGIC INSTRUMENT CONTROL MARKING--NO RESTRICTIONS . DOCUMENT CLASS--UNCLASSIFIED STEP ND--UR/0026/70/000/001/0118/0118 PROXY REEL/FRAME--1987/1435 CIRC ACCESSION NO--AP0104744 ۵ UNCLASSIFIED -------

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URODI Ref. Code: JPRS SOUS Af0045868 Acc. Nr .: The Institute of Electrochemistry, in collaboration with the Insti-Electrochemical Seismic Detector tute of Physics of the Earth, has developed a miniaturized electrochemical tute of Physics of the Larth, has developed a miniaturized electrochemical (Summary: "Electrochemical Seismic Detector," by M. A. Novitskiy and Yu. V. Sirotinskiy; Moscow, Priroda, No. 1, 1970, P. "The summarism seismic detector with a high response in the range of subsonic frequencies. It is designed to react to render transfer to render transfer to render the suite set of the set It is designed to react to random tremors in a wide range of low frequencies. This seismic detector is an inertial instrument with a fluid seismic mass which employs an electrochemical method for converting the relative oscillations of the fluid and housing into an electric output Bignal. The detector is designed in the following way. A hollow cylindrical body of fluoroplastic is divided by a partition arranged perpendicular to the axis of rotation into two chambers to whose end walls are attached elastic membranes of a chemically stable rubber. The partition has a through opening connecting both chambers and within it, parallel to the plane of the partition, there are two electrodes made of a platinum grid. The internal cavity of the housing 15 filled with an electrolyte: an aqueous solution of iodine and potassium iodine. When a d+c voltage of about 0.5 V is applied across the electrodes of the seismic detector an electric روز 19780873

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current appears in the circuit: at the cathode the iodine molecules are reduced to negatively charged lodide ions and a reverse process occurs at the plate. Since the surface of the cathode and the iodine concentration are smaller than the surface of the plate and the concentration of iodide ions, the main resistance to the electric current is exerted by processes transpiring near the cathode. Before the voltage is applied the iodine concentration at the surface of the cathode and in the electrolyte volume is the same. The electric current leads to an impoverishment of the space mant the counce with ladine. This is partially compensated by the difusion of iddine from the volume. The flow of electrolyte to the cathode, caused by the oscillation of the seismic detector housing, favors the movement of iodine to the cathode and thereby exerts an effect on the current responsible for its oscillations. These current oscillations are the electric output signal of the detector when seisnic phenomena are registered. Field tests have shown that during the registry of distant earthquakes in the Northern Tien Shan the records of the output signal of the electrochemical seismic detector are identical to the records of standard seismic detectors. The miniature size of the new seismic detector is an important advantage when registering seismic phenomene in deep boreholes. The same instrument can be used for investigating both the vertical and horizontal components of oscillations.

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NOVITSAMY, NOVITSKIY, P.V. [Article by Doctor of Technical Sciences Frofessor P. V. <u>Novikskis</u> Direc-tor of the Scientific Research Institute of Astemation and Instrument-Baking of the Leaningrad Order of Lonin Polytechnic Institute Institute Astening M. I. Kellan; Mostov, <u>Fribery i Slatemy Upravientyp</u>, Russian, Ne 4, April 1971, pp 12-13] right in moting that the accolutited dovelopment, may being down, of a large number of stenderds without sufficient consultation with leading scientists and without attentive study of the existing scientific literature STANDARDIZATION OF CONCEPTS, DEFINITION, AND TURMS IN THE THEORY OF However, the introduction into the standards of impromptu or volun-terist solutions in the area of theory does serious domoge to the activity of solentific and practical unders of the entire branch. And the examples of voluntarism, the unallowability of which Professor Yu. 1. Infish pointed out in [1], for from exhaust such omissions in standards published in recent years. It would eppear that the introduction into state standards of cur-tein positions, especially when this relates to the basic concepts of the theory of any branch of engineering, is only least reinforcement of compro-henalvely substantized concepts established as the result of many years of labor of scientists. Such positions and concepts must be borrowed from the existing scientists. Such positions and concepts of the corresponding disciplines of the VUZ, and from scincels articles, and not worked out anew only in the compliation of a standard on solved by agreement of repre-entatives of the "interested" ministries. can bring serious harm instead of the expected bonefit. The question relead by Professor Yu. 1. Iorish in [1] has accually equired exceptional importance. Professor Yu. 1. Iorish is completely MEASURING INSTRUMENTS Thus, for example, is the situation with respect to normal series in the area of instrument-making. It is generally known that the most economical series is a genmetric progression; that is, a worker with a constant ratio of all adjacent numbers. That hav was understand even by the solentists of antiquity. The Greek astronomer Hipparchus (of the second So: JPRS 56298 19 JUNE 1972 ı N 1 UNC: mensurily restaurants 681.2:389.6.001.4 R Instrument -Making

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"APPROVED FOR RELEASE:	09/17/2001 CIA-RDP86-00513R002202230003-7
1/2 024 TITLEEQUIVALENT THREE ELEMENT SOLUTION INTERFACE -U- AUTHORGNUSIN, N.P., NOVITSKIY	CLASSIFIED PROCESSING DATE11SEP70 ELECTRIC CIRCUIT FOR THE ELECTRODE . S.P.
COUNTRY OF INFOUSSR	
SUURCEELEKTROKHIMIYA 1970, 61	31, 299-306
DATE PUBLISHED70	사실 가 · 분준 사용별 관심 · 사실 · · · · · · · · · · · · · · · · ·
SUBJECT AREASPHYSICS, ELECTRO	NICS AND ELECTRICAL ENGR.
TOPIC TAGSMATHEMATIC MODEL, E Electrode, electric impedance	LECTRIC CURRENT, ELECTRONIC CIRCUIT, , ELECTRIC CAPACITANCE
CONTROL MARKINGNO RESTRICTION	S
DOCUMENT CLASSUNCLASSIFIED PROXY REEL/FRAME1988/0247	STEP NDUR/0354/70/005/003/0299/0306
CIRC ACCESSION NOAP0105321	
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UDC: [621.313.322-81:537.312.62]001.24 USSR BORZOV, G. G., GLEBOV, I. A., GNEDIN, L. P., DOMBROVSKIY, V. V. NOVITS-KIY, V. G., SHAKHTARIN, V. N., Leningrad . "Problems in the Development of High-Power Turbogenerators With Superconductive Field Windings" Moscow, Izv. AN SSSR: Energetika i Transport, No 4, Jul/Aug 72, pp 21-28 Abstract: The authors point out the advantages of cryogenic turbogenerators over conventional units. Elements of construction of high powered cryogenic turbogenerators are described, and the results of model tests are presented. The analysis shows that using superconductors in the field windings increases the unit power of turbogenerators by an order of magnitude. The results of experimental studies confirm the feasibility of a synchronous machine with rotating cryostat that has low liquid helium evaporability and provides torque transfer. The realization of high-power cryogenic turbogenerators must wait for a great deal of research on development of new materials, structural and refrigeration units, and automatic monitoring and control systems. 1/1

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		AL ISBN
	USSR UDC 621.315.55:537.312.62	
	KCXHANOVSKIY, S.M., NOVITSKIY, V.G., SHAKHTARIN, V.N.	
	"Test Of Planning And Creation Of Superconducting Solenoids"	
	V sb. Vopr. primeneniya sverkhnizk. temperatur v elektrotekhn. (Problems Of The Use Of Ultralow Temperatures In Electrical Engineering-Collection Of Works); Leningrad, "Nauka," 1971, pp 74-90 (from <u>RZh:Elektrotekhnike i energetike</u> , No 6, June 1972, Abstract No 6B69)	1
	Translation: An account is given of a method of calculation and designing, and the results of a test of superconducting solenoids with a magnetic field inten- sity from 10 to 70 k-corsted for physical experiments. The interior diameter and the magnetic field intensity at the geometrical center of the superconducting solenoids were taken as the initial data. Calculated curves are presented of the dependence of the masses of the superconducting materials of the superconducting solenoids on the current density in the super conductor. Also presented are various configurations of the superconducting solenoids with an increased uni- formity of the magnetic field attained because of the exclusion of a part of the turns of the winding. The distinctive features of the technology of the production of superconducting solenoids are presented. 15 ill. 2 tab. 4 ref.Ye.V.Granovskiy. 1/1	
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USSR	000: 301.915.02.900.01.00	
NOVITSKIY, V. G., SHAKHT	FARIN, V. N., Leningrad	
"Electrodynamic Forces a Systems"	and Mechanical Stresses in Superconducting Magn	netic
Moscow, Izv. AN SSSR:Ene	ergetika i Transport, No 4, Jul/Aug 72, pp 50-5	55
superconducting solenoid presence of a radial bod accounts for the elastic banding. Formulas are p and the Poisson ratios of	proposed for calculating mechanical stresses in a as a cylindrically anisotropic body in the dy force which depends on the radius. The meth constants of the material of the winding and presented for calculating the moduli of elastic of a ribbon solenoid whose winding is made up o bilizing material and insulation. Expressions	nod the city of
also given for determining coils for various relation of finding mechanical st axial component of the e	ing the electrodynamic forces between two circular positions. A stricter solution of the protoresses in a winding should take account of the electrodynamic force acting on the conductors of	ılar olem e
the winding.		
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	=?)] 0 =	a design of the second s

KOPPISHON, E. Yu., NOVI SOBOLEV, Yu. V.	TSKIY, V. K., ROMANOV, P. A., SOBOLEV, V. V.,	
"Smelting of Steel for	the Rotors of Large Turbine Generators"	
Moscow, Stal', No 2, Fe	b 73, pp 116-117.	
المستحد بمستحد مسافة بيب		•
	electric steel in an evacuated ingot mold. The study erties of the metal taken from various parts of the minated with nonmetallic inclusions, segregations of	
resulting ingot, contam the basic elements, mac		
resulting ingot, contam the basic elements, mac	erties of the metal taken from various parts of the minated with nonmetallic inclusions, segregations of crostructures, etc., has shown that this type of	
resulting ingot, contam the basic elements, mac	erties of the metal taken from various parts of the minated with nonmetallic inclusions, segregations of crostructures, etc., has shown that this type of	
resulting ingot, contam the basic elements, mac	erties of the metal taken from various parts of the minated with nonmetallic inclusions, segregations of crostructures, etc., has shown that this type of	
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resulting ingot, contam the basic elements, mac mixed ingot satisfies a	erties of the metal taken from various parts of the minated with nonmetallic inclusions, segregations of crostructures, etc., has shown that this type of	
resulting ingot, contam the basic elements, mac mixed ingot satisfies a	erties of the metal taken from various parts of the minated with nonmetallic inclusions, segregations of crostructures, etc., has shown that this type of	•

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CIA-RDP86-00513R002202230003-7

UDC 577.3 USSR STREKOVA, V. Yu., and TARAKANOVA, G. A. VOVITSKIY, Yu. I "Effect of a Constant Magnetic Field on Plant Growth" Vliyaniye Magnitnykh Poley na Biologicheskiye Cb"yekty, pp 69-88 Abstract: As a result of many years of research, the authors have concluded that the effect of a magnetic field on plants may manifest itself as a result of the effect on the genetic apparatus (either directly on the code or on information transfer), or as a result of direct interference in metabolism or as coordinated mechanisms related to orientation in space and time. The latter is especially likely in fields of the order of the earth's and less, which can be explained not only by resonance effects, but also by the particular sensitivity of the transitional structural states of organic gels to external influences. In intense fields with strong gradient, it is difficult to single out any of the above mechanisms. 1/1- 95 -

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UDC 681.327.2	
NÖVOKAYDATSKIKH, A. V.	
"A Data Transcriber" Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 29, Oct 1972, Author's Certificate No 353244, Class G, filed 18 Sep 70, mulished 29 Sep 72, p 120	•
 Translation: This Author's Certificate introduces a data transcriber con- taining registers whose inputs are connected to the outputs of recording and readout AND gates. The device also contains AND and OR logic circuits. As a distinguishing feature of the patent, the speed and reliability of the transcriber are improved by including an interlock device in each register made in the form of a flip-flop with one output connected to the first in- puts of the recording and readout AND gates of the respective register. The second inputs of the AND gates are connected to the lines for recording and readout control. The second output of the flip-flop is connected to the first inputs of the recording and readout gates, the second inputs of the second inputs of the recording and readout gates for recording these gates being connected to the control lines of a unit which controls recording, readout, and reset. The cutputs of AND gates for recording,	
recording, removed and the	

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"APPROVED FOR RELEASE:	09/17/2001	CIA-RDP86	-00513R00	2202230003 international	8- 7
1/2 028 UN TITLEVISIBLE CRACK FORMATION	NCLASSIFIED SITES INITIAT	PROCE ED BY LASER	SSING DAT BEAMS -U	E230CT70	
AUTHOR-(04)-AGRANAT, M.B., NOVE	OV, N.P., YUD	IN, YU.I.,	YAMPOLSKI	Y, P.A.	
COUNTRY OF INFOUSSR	·N				
SOURCEFIZ. IVERD. TELA 1970,	12(3), 924-7				
DATE PUBLISHED70					
SUBJECT AREASMATERIALS, PHYSI	CS				- L
TOPIC TAGSLASER BEAM LESION,	CRACK PROPAGAT	ION, POLYM	ETHYLMETHA	CRYLATE	
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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230003-7 Ref. Code Abstracting Service: 21R0459 Acc. Nr. -70 CHEMICAL ABSTA AP0048830 C 91289b Vulcanization of rubber with dimethacrylic esters of 91289b Vulcanization of rubber with dimethacrylic esters of lycols having molecular chains of different lengths. Novka. va. L. A., Tarasova, Z. N.; Dogadkin, B. A. (Mosk. Inst. Tolikoi Khim, Tekhnol. im. Lomonosova, Moscow, USSR). Vysokomol. Soedin., Ser. A 1970, 12(1), 63-8 (Russ). Butadiene styrine rub-ber (Uroprene 1500) (1) was vulcanized with diethylene glycol di-methacrylate (II), triethylene glycol dimethacrylate (III), butyl-ene glycol dimethacrylate, and decamethylene glycol dimethacry-late in the presence of dicumyl peroxide (IV) at 130 and 153°. The reactivity of dimethacrylates (contg. no IV) to initiate cross-linking was inversely proportional to chain length and flexibility. linking was inversely proportional to chain length and flexibility. The amt. of dimethacrylate added to I was $\sim 70-80\%$. The The amt. of dimethacrylate added to I was the of II as well reactivities of ethylene glycol dimethacrylate, II, and III as well as the no. of the crosslinks formed following vulcanization were essentially identical. The tensile strength of I vulcanizates was unaffected by the chain length of the crosslinking agent. A cross-Univing mechanism was discussed. linking mechanism was discussed. 10 REEL/FRAME 19800597

CIA-RDP86-00513R002202230003-7

UDC 539.374 USSR VERETENNIKOV, S. V., KRASIKOV, K. I., NOVOBRATSKIY, R. L., PERPER, F. A., POLYAK, S. M., UMANSKIY, YA. S., USIKOV, M. P., EPSHTEYN, G. N. "Effect of an Impact of a Part of a Matrix Under Impulse Distortion" V sb. Vysokoskorostn. deformatsiya (High-Speed Deformation -- Collection of Works), Moscow, "Nauka", 1971, pp 108-109 (from RZh-Mekhanika, No 3, Mar 72, Abstract No 3V653) Translation: The structure and mechanical properties of nickel, nichrome (NKh7) and Kh18N10T steel after hydraulic impulse stamping with impact and without impact of the parts of the matrix were investigated. It was established that collision occurs in a closed matrix and the central zone of the part undergoes the strongest impact. The impact of a part of thickness 2 mm causes strengthening of the material in the middle of the thickness of the part and weakening in the zone of a depth up to 0.3 mm from the side of the surface of the part contacting the matrix which is connected with nonuniform plastic deformation in the impact process. The weakening effect is supported by results of studying parts of thickness 0.3 mm that have first undergone collision with the matrix. Authors abstract. 1/1

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CIA-RDP86-00513R002202230003-7

UDC 621,224-22:532.5 USSR MIKHAYLOV, I. Ye., and NOVODEREZHKIN, R. A. "Pressure Losses in the Supply Line of a Hydraulic Turbine" Sb. Tr. Mosk. Inzh.-Stroit. In-t [Collection of Works. Moscow Construction Engineering Institute], 1971, No 91, pp 143-150 (from Referativnyy Zhurnal, No 10, Oct 72. 49. Turbostroyeniye. Single Issue. Abstract No 10.49-204) Translation: The investigation of energy losses in the individual members of the flow line of a hydraulic turbine makes possible a more well-founded evaluation of the potential effect of individual members on the energy indices of the hydraulic turbine, a determination of the locations and sources of increased energy losses, and the indication of ways of their reduction. Carried out experimental investigations showed that total losses in the helical chamber, the stator, and the guiding device vary from 1.5 to 5% of total pressure; that is to say, they amount to 30% of all energy losses in the flow line of the hydraulic turbine. Besides, the shape of the helical chamber and also the mutual position of the stator columns and stator blades affect essentially the flow uniformity before the rotor, from which depend the energy losses in the rotor and the suction tube of the hydraulic turbine. Two illustrations, one table, three bibliographic references. 1/1ดรากรรรรรรรณการแกลงกระบวยแนนของหมายแหวยแนะของออกนอบแก่ไปไม่ไก่ก่อว่านี้ได้ไปเมื่อให้มีประจำรับไม่ไม่ได้เราได้ได

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IDC 621.224.001.5:621.3.043 USSR NOVODEREZHKIN, R. A. . Handred and the second 12:50 "Study of the Flow in the Stator Region of Hydroturbines" Tr. Vses. proyektno-izyskat. i NII Gidroproyekt (Works of the Gidroproyekt All-Union Planning, Surveying and Scientific Research Institute), 1970, collection 19, pp 119-127 (from RZh-Elektrotekhnika i Energetika, No 4, Apr 71, Abstract No 4 D112) Translation: Analysis of the formula for determining the direction of flow formed by the spiral chamber indicates a difference of the calculated angles characterizing this direction from those determined experimentally. More precise definition of the formula which will permit determination of the angles with greater accuracy is proposed on the basis of the experimental data. There are 3 illustrations and a 3-entry bibliography. 1/1

APPROVED FOR RELEASE: 09/17/2001

	-CERTIFICATION - CERTIFICATION
USSR UDC: 621.316.6	
SIL'VESTROV, V. M., NOVODEREZHKIN, V. P., TOMASHFOL'SKIY, N. F., DUBOVA, E. S., KISILEV, V. I.	
"A Device for Protecting the Front Surface of Optical Systems"	
Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 6, Feb 72, Author's Certificate No 328411, Division G, filed 20 Aug 69, published 2 Feb 72, p 143	
Translation: This Author's Certificate introduces a device for protect- ing the front of optical systems from atmospheric contaminants. The device contains a fitting which mates with the mount of the optical system and has a joint for feeding in compressed gas. As a distinguishing feature of the patent, in order to preserve image quality, the unit for feeding in gas is made in the form of a gas-collecting chember with guide chan- nels which goes into a blender nozzle.	•
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สะกลางไม่มากระดาสาสสาสสาสสาสสาสสาสสาสสาสสาสสาสารกลางกลามารถหนายายสาสาสารการการการการการสารสารสารสารสารสารสารสาร 	

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CIA-RDP86-00513R002202230003-7

USSR UDC: 616-036.882-092.9-036.81-008.921.1 BULANOVA, O. N., ZAKS, I. O., and NOVODERZHKINA. I. S., Laboratory of Experimental Physiology for Reanimation of the Organism, Academy of Medical Sciences USSR, Moscow "Dynamics of the Acid-Base Equilibrium in the Restorative Period After Circulatory Arrest Induced by Asphyzia" Moscow, Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya, Vol 14, No 6, Nov/Dec 70, pp 13-16 Abstract: After 2 and 6 min of clinical death induced in 24 dogs by mechanical asphyxia, reanimation was initiated with cardiac massage, injection of epinephrine, and forcing a small amount of blood into an artery. In some experiments, an equal amount of blocd was suctioned from the right heart and artificial respiration was conducted. The dynamics of pH, pCO2, and total organic acids was traced for 24 hours and the results compared with those obtained in earlier experiments in which death was caused by bleeding. Significant differences in these indices were observed only during the agonal stage and first few minutes of the post-reanimation period. Thereafter, uncompensated alkalosis and secondary hypoxia developed, regardless of the manner of death. The six enimals in 1/2 er andere since entering in the second statement of the second second second second second second second second

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USSR BULANOVA, O. N., et al, Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya, Vol 14, No 6, Nov/Dec 70, pp 13-16 which blood was suctioned from the right heart revived after 6 min of clinical death, while none of the six other animals in which this procedure was not carried out survived. All of the animals exposed to anoxia for 12 min. 7 sec survived, but when the period of exposure was extended to 13 min, 42 sec all of the animals died. Even the relatively small time difference (1 min, 35 sec) was apparently sufficient to determine the possibility of restoration of functions. 2/2

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CIA-RDP86-00513R002202230003-7

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UDC 616-001.8-036.882-036.82-07:616.831.088-07

NOVODERZHKINA, I. S., Laboratory of Experimental Physiology of Resuscitation

"Restoration of Vital Functions in Dogs After Clinical Death From Asphyxia in Relation to the Resuscitative Measures Used and Course of the Initial Stages of the Restorative Period"

Moscow, patologicheskaya Fiziologiya i Eksperimental'naya Terapiya, No 2, 1971, pp 50-53

Abstract: Experiments on dogs showed that success in resuscitation and restoration of neurologic functions after clinical death (3 to 6 min) caused by asphyxia is largely dependent on the procedures followed during the first few minutes of the restorative period, Various groups of animals received different doses of epinophrine and artificial respiration and in some blood was drawn from the right heart. The best results were achieved by prompt injection of large doses of epinephrine (0.1 mg/kg) of a lil,000 solution), maintenance of arterial pressure at a high level (200 mm) aspiration of blood from the right heart, and employing artificial respiration until breathing became normal (judged by the disappearance of phase activity in the accessory respiratory muscles). Almost all the dogs died who received low doses of epinephrine and from whose right heart no blood was drawn. 1/1

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NAYDICH, YU. V., PEREVERTAYLO, V. M., and NOVODNIK, G. M.

"Surface Properties of Ni-C and Co-C Melte"

Moscow, Izvestiya Akademii Nauk SSSR, Metally, No 2, Mar-Apr 72, pp 87-90

Abstract: Surface tension and density of Ni-C and Co-C melts were determined by the "large drop" method. Electrolytic nickel and cobalt, proviously remelted in a vacuum with an electron beam, were placed in Al₂O₂ or BeO cups which contained a graphite substrate. Carbon from the substrate mixed with the molten nickel or cobalt to form a hypereutectic concentration from which the equilibrium concentration of carbon along the liquidus line could be calculated in the 1310-1600°C interval.

Polytherms of the investigated molts showed that carbon significantly lowers the surface tension of both Co-C and Ni-C molts. This lowering of surface tension for metals of the iron group was attributed to the molecularstatistical theory of adsorption. The following ratios were extracted from plotted data: 370/5.5, 327/3.6, 341/2.8, where the first number is the magnitude of surface tension lowering (dynes/cm) and the second number is the percent of carbon introduced into the molt for Fe, Co, and Ni, respectively. One figure, 11 bibliographic references. 1/1

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1972	, pp 146-156 (Tra	mputer Systems Collection of Works], No 51, Novosibir anslated from Referativnyy Zhurnal Kibernetika, No 6, 601, by the authors).	sk,
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ZHOZHIKASHVILI, V. A., MITSKEVICH, L. A., NOVOKHATNIY, A. A., SILAYEV, V. N.	
"The 'Sirena' Time-Sharing Queueing System"	
Moscow, Pribory i Sistemy Upravleniya, No 9, Sep 70, pp 1-4	
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NOVOKHATSKIY, A. S., and YERSHOV, F. I., Antibiotiki, No 7, 1973, Vol 18, pp 629-633

determined; it varies depending on type of cell, species of virus, and other factors. Successful combination of the nuclease and the interferonogen is possible only upon conclusion of this phase. The combined application is based on the principle that the antiviral state developed by the use of the polyIC is maintained when the preparation is not actually present (at least on the cell surface). It is concluded that a combination of the official pancreatic ribonuclease and an interferonogen is possible in principle, and further investigation is required for the extent of animal application.

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UDC 576.858.25 NOVOKHATSKIY, A. S., Institute of Virology imeni D. I. Ivanovskiy, Academy of USSR Medical Sciences USSR, Moscow "Comparative Studies of Thermal Inactivation of Hemagglutination and Infectivity of Venezuelan Equine Encephalomyelitis Virus" Moscow, Voprosy Virusologii, No 2, 1973, pp 163-167 Abstract: Studies were conducted on the thermal inactivation of Venezuelan equine encephalomyelitis (VEE) virus hemagglutinating and infectious properties. Prior to experimentation, the VEE virus had been passed 28 times in chick embryo fibroblasts. The viral suspensions were prepared in medium 199 with 2% heated bovine serum, heated, and immediately titrated for infectious (IA) and hemagglutinating (HA) activities. Inactivation of HA in the range of 50° to 60°C proceeded at a rate proportional to the temperature. Inactivation rate constants for IA were determined for the 4-60°C range. In the 50-60°C range the Arrhenius plots for the inactivation of IA and HA were superimposable. Eyring's equation was employed to calculate the enthalpy and entropy of activation of the thermal inactivation of HA and IA. The enthalpy of activation for the inactivation of HA and IA of the native VEE virus were, respectively, 68.95 kcal/mole and 75.8 kcal/mole, while the corresponding values for the 1/2 A STATUS AND A S

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USSR NOVOKHATSKIY, A. S., Voprosy Virusologii, No 2, 1973, pp 163-167 entropy of activation were 152.27 e. u. and 162.8 e. u. For a thermostable strain of the VEE virus the enthalpy of activation for the inactivation of HA and IA came to, respectively, 112.2 kcal/mole and 101.9 kcal/mole, and the corresponding entropies of activation were 271.5 c. u. and 241.08 e. u. Evaluation of the Arrhenius plots showed that in the 33-36° range dissociation of HA and IA inactivation would be possible, since inactivation of HA would proceed at a rate not less than 10-fold lower than that for IA inactivation. At 36° , the logarithm of the rate constant of inactivation (log k_{in}) was -4.43 for IA and -5.6 for the inactivation of HA. Since difference in the $-\log k_{in}$ was even greater for the thermostable VEE virus, the latter is more suitable for the preparation of noninfectious hemagglutinins. 2/2 <u>_ho</u>_

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bstract: Venezuelan equi	ne encephalomyelit	is virus w	as cultured suspension.	on chick and in		
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UDC 575.858.095.383.088 USSR YERSHOV, F. I., and NOVOKHATSKIY, A. S., Institute of Virology imeni D. I. Ivanovskit, Academy of Medical Sciences USSI "Means of Inducing the Production of Large Quantities of Interferon" Moscow, Voprosy Virusologii, No 1, 1970, pp 34-37 Abstract: Optimum conditions for the production of interferon in-duced by group A arboviruses (VEE and Sindbis) in primary trypsinized chick embryo fibroblast cultures were studied using different methods of cultivation - monolayer stationary cultures, roller cultures (grown in rotating vessels), and suspensions. It was found that under identical conditions the level of interferon production was determined mainly by the viability of cells and their concentration. There is a distinct relationship between the intensity of viral replication (infectious and hemagglutinating activity) and the amount of interferon formed, especially when roller cultures were used. Elevating the incubation temperature increased the yield. For example, at 39° C and higher temperatures, interferon titers reached 1600 IU_{50}/ml , but at 37° C they did not exceed 400 IU_{50}/ml . This 1/2

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USSR YERSHOV, F. I., et al., Moscow, Voprosy Virusologii, No 1, 1970, pp 34-37 was true only in the case of Sindbis virus, for in the case of VEE virus, interferon production steadily decreased as the temperature rose, an example of the individual differences that exist in the interferon-inducing capacity of viruses within the same group.						
YERSHOV, F. I., et al., Moscow, Voprosy Virusologii, No 1, 1970, pp 34-37 was true only in the case of Sindbis virus, for in the case of VEE virus, interferon production steadily decreased as the temperature rose, an example of the individual differences that exist in the interferon-inducing capacity of viruses within the same group.		1. 「「「「「」」」、「「」」、「」、「」、「」、「」、「」、「」、「」、「」、「」			•.	
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	F.I., URYAYEV, L.V., NOVOKHATSKIY, A.S.
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SUBJECT AREAS-BIOLOGICAL AND ME TOPIC TAGS-PROTEIN SYNTHESIS, VIRUS, VENEZUELAN EQUINE ENCER	TISSUE CULTURE, EASTERN EQUINE ENCEPHALITIS
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USSR UDC 548.73 NOVOKHATSKIY, I. A., and VELYUKHANOV, V. P., Donets Physico-Technical Institute, Academy of Sciences Ukrainian SSR "Determining the Crystalline Grain Sizes in Sitals" Moscow, Zavodskaya Laboratoriya, No 10, Oct 72, pp 1216-1217 Abstract: The sithod of small-angle scattering of polarized light is used to determine the crystalline grain sizes in sitals made from acid slags. An IG-56 gas laser with a wavelength of 0.6282 microns is used as the polarized light source. The size of crystalline grains, dispersed in the glass-like base of the investigated sitals, anounced to 1.5 microns as computed with the aid of this method. One figure, one bibliographic reference. 1/4

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230003-7 Abstracting Service: Ref. Code: Acc. A70048311 INTERNAT. AEROSPACE ABST. 5-70 UR0020 A70-24271 # Effect of nonmetallic inclusions on the viscosity of metallic melts (Vlijanie nemetallicheskikh vkliuchenii na viazkosť metallicheskikh rasplavov). V. I. Arkharov, G. S. Ershov, L. A. Novokhatskii, and A. M. Kovalenko (Akademiia Nauk Ukrainskoi San, Fiziko-Tekhnicheskii Institut, Donetsk; Ukrainskii Nauchno: Issledovatel'skii Institut Spetsial nykh Stalei, Kharkov, Ukrainian SSR). Akademila Nauk SSSR, Doklady, vol. 190, Jan. 11, 1970, p. 366-368. 6 refs. In Russian. Study of the kinematic viscosity of molten steel of a single composition containing various amounts of nonmetallic oxide (mainly corundum) inclusions in the temperature range from 1600 to 1825 C. The viscosity values were determined by the method of torsional vibrations of a crucible containing liquid metal in an inert atmosphere. It is found that the viscosity of liquid steel increases substantially with an increase in the quantity of corundum dispersed in it. This relative increase in viscosity due to the presence of nonmetallic inclusions decreases with an increase in temperature. A.B.K. トロ 18 REEL/FRAME 19800013 er Denserenskener

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"The Two-Isotherm Met	thod in Diffractometry of Melts"	
Moscow, Doklady Akade	emii Nauk SSSR, Vol 211, No 4, 1 Aug 73, pp 814-817	
for interpreting the specific characterist shows the partial dif principle, is applicab of clusters and a gen	otherm" method based on Fourier analysis is proposed diffraction patterns of melts with regard to the tics of their micrononhomogeneities. The procedure fraction effects of structural components, in ole to multicomponent melts consisting of several types meral disordered zone, and can be extended to analysis atterns of molten salts, oxides, and so forth.	
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01 CIA-RDP86-00513R002202230003-7

UDC 621,791.756.011:546.821 USSR GUREVICH, S. M., BLASHCHUK, V. Ye., NOVOKOV, V. I., and LEBEDEV, V. K., Institute of Electric Welding imeni Ye. O. Paton "Local Thermal Processing of Welded Vessels Made of AT3 Titanium Alloy" Kiev, Avtomaticheskaya Svarka, No 2, Feb 71, pp 12-14 Abstract: A study was made of the possibilities for removing the residual stresses in the weld seams of AT3 vessels and in the area near the seams by local thermal processing. Because there were no available data on the residual stresses in the AT3 alloy, the nature and amount of these stresses in welded joints of thick sections of the metal had to be studied through experimentation, which was done on approximately square specimens of the alloy. Preliminary work, consisting of heating the specimen to 600-650°C for two hours, then cooling, was to determine the extent to which the residual stresses in the welded seam and its surroundings were removed and whether local heating could reduce the longitudinal residual stresses. The latter received special attention since cracks in titanium alloy welds are usually at right angles to the seam. The residual stresses were measured with DK-20 tensometers. It is conlouded that local thermal treatment 1/2

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USSR GUREVICH, S. M., et al, Avtomaticheskaya Svarka, Kiev, No 2, 1971, pp 12-14 is effective in reducing or eliminating residual longitudinal stresses, and such treatment is recommended for circular welds on vessels. A table of the stresses measured with and without local thermal processing is given. 2/2 -67.-

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a USSR i en la construcción de la Construcción de la construcción de l	UDC 681.32.001	
UMOV, V. S., NOVOKOVSKIY, Y. M., FILATOV.	A. G., and KRANKOV, Ye. S.	
"A Connector for a Printed-Circuit Board"		
USSR Author's Certificate No 294269, filed (from RZh-Avtomatika, Telemekhanika i Vychi 71, Abstract No 10B147 P)	17 Apr 69, published 17 Mar 71 slitel'naya Tekhnika, No 10, Oct	
Translation: The invention pertains to ins to devices for checking disconnected circui There are well-known devices designed for i of circuit boards which are made in the for a parallel row with a definite spacing abou However, such devices are cumbersome and do ing areas of the solid-state circuit which of the board. The purpose of this invention reliability of the connector for printed-cir contact-holders in the proposed connector at strips fastened on round pins, and the houst modate the contact elements made in the form	ts on solid-state circuit boards. nspection of the output contacts m of metal strips arranged in t the perimeter of the board. not allow contact with the work- are located on the flat surface n is to improve the operational reuit boards. To this end, the te made in the form of L-shaped ing has opening which sees	\$
illustrations. 1/1	The second	5
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Microelectronics UDC: 621.3.049.75 USSR FILATOV, A. G., KRANKOV, Ye. S. UMOV, V. S., NOVOKOVSKIY М. "A Connector for a Printed Circuit Board" Moscov, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 6, Feb 71, Author's Certificate No 294269, Division H, filed 17 Apr 69, published 26 Jan 71, p 180 Translation: This Author's Certificate introduces a connector for a printed circuit board. The device contains a dielectric housing which accommodates contact holders with contacts between which the printed circuit board is inserted. As a distinguishing feature of the patent, the operational reliability of the connector is improved by making the contact holders in the form of L-shaped strips fastened to circular pins and fitting the housing with apertures which hold the contact elements made in the form of multiple--leaf springs. 1/2

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Polymers and Polymerization

USSR

WC 678.664-408.8701.53

KRYUCHKOV, F. A., ANISTMOVA, A. N., and NOVOKRASHCHENOVA, L. N.

"New Semirigid Foam Polyurethane"

Moscow, Plasticheskiye Massy, No 4, 1972, pp 24-26

Abstract: A new semirigid foam polyurethane is described which is based on activated ordinary polyester, triethanolamine and polyisocyanate. A study was made of the rigidity of the foam polyurethane as a function of the water content in the compound, the foam factor, the amount of cross-linking agent and the time from obtaining a specimen of foam polyurethane to testing it.

The rigidity of the specimens of semirigid foam polyurethan increases during the first month, and by the end of the second month the rigidity is 1.5-2.5 times greater than that of the initial specimen. Thereafter the rigidity remains constant. With an increase in the foam factor, the rigidity increases noticeably. An increase in the amount of cross-linking agent leads to an increase in rigidity. With an increase in the amount of cross-linking agent the system becomes more active since the triethanolamine is simultaneously a catalyst of the chemical reactions with the participation of the isocyanate groups.

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P.D.	UDC: 532.721.69 RTYNOVA, N.K., and NOVOKRESHCHENOV,	
MAL'TSEV, G.V., MA		
P.D.	RTYNOVA, N.K., and NOVOKRESHCHENOV,	
P.D.		
"Influence of Mercury of	on Strength of Copper Subject to Ultra-	
sonic Vibrations"		
Kiev, Fiziko-Khimiches 1971, pp 29-32	skaya Mekhanika Materialov, Vol 7, No 5,	
Abstract: Tensile tests to ultrasonic vibrations	s of amalgainated copper specimens subject were conducted.	
mercury was 0.001 mm connected to a vibrator The other end was subj	ere of 1 mm diameter. The coating of thick. One end of the specimen was operating at 22 and 17.5 kilohertz frequency. ect to a static load. The grain size was	
varied by varying the a	nnealing temperature.	
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MAL'TSEV, G. V., et al, Fiziko-Khimicheskaya Mekhanika Materialov, Vol 7, No 5, 1971, pp 29-32

On Fig. 1 the tensile strength is plotted versus the square of the vibratory stress. The tensile strength of copper specimens without mercury is affected little by the vibratory stress. The tensile stress of amalgamated specimens is lower than of the specimens without mercury, it remains constant for small values of vibratory stress, then decreases linearly with the square of the vibratory stress. Curves for six different grain sizes are given, the strength decreases with the size of grain.

The explanation of these results is that the vibratory stress destroys the intermetallic bond between copper and mercury and makes it possible for the liquid mercury to penetrate into the cracks between the grains of copper.

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UBEKHIN, V. P., NOVOKRESH	ICHENOV, P. D., POPOV, V. I., and MAKSIMCV, V. P.	
'On the Problem of Metal I	Internal Friction Mechanism in the Process of	-
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- Notallic Materials, "	v metallicheskikh materialakh" (Internal Friction oscow, Izd-vo "Nauka," 1970, pp 73-76	
	a internal Iriculu	
Abstract: Results are pro	eschool of the process of their plastic deformation	
and Nigmer 81	TOA' measure -	
and Nigmer 81	TOA' measure -	
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in nickel and NISM-2.7 at tion at various temperatu It is shown that a c and creeping stages.	TOA' measure -	
in nickel and NISM-2.7 at tion at various temperatu It is shown that a c and creeping stages.	res. ertain relationship is observed between changes in Q ⁻¹	
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in nickel and NTsm-2.5 al tion at various temperatu It is shown that a c and creeping stages. Problems related to the basis of general disl	res. ertain relationship is observed between changes in Q ⁻¹	
in nickel and NISM-2.7 at tion at various temperatu It is shown that a c and creeping stages.	res. ertain relationship is observed between changes in Q ⁻¹	

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USSR		UDC 621.378.32	25		
BYKOV, V. P., VAKHIN				. v.	
"Effect of Resonator	Matching on the l	Power of Solid-S	State Lasers"		
Moscow, <u>Kvantovaya I</u>	lektronika, No 2,	1971, pp 53-56			
Abstract: Condition	s are determined :	for matching of a leser in which	the various the active	element	
of the optical cavit is a nonhomogeneous effect which such me power is generated if	y of a solid-state dielectric, and an tching has on emin n the matched that	e laser in which n experimental s ssion power. It n in the unmatch	the active study is made is shown the ned mode, oth	element of the at greater er things	
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USSR		UDC 614.2
SIDOROVA, L. N., RUZIYEV, Kh K. A., Ministry of Health Ki	h. R., <u>NOVOKRESHCHENOVA</u> , I Irgiz SSR	F. A., and AYDARALIYEV,
"From the Fight Against Mala Entering Kirgizia"	aria and Steps Taken to P	revent the Disease From
Frunze, Sovetskoye Zdravookh	nraneniye Kirgizii, No 6,	1972, pp 29-32
throughout the republic. To arriving from parts of the S visitors from Africa and Asi with a history of the diseas	In 1933, for example, it is s with a morbidity rate o cline after World War Two sease and by 1959 not a s o prevent the importation Soviet Union where it is is are registered and car se are checked from time mps within a radius of 3 gambusia and grass carp continuous monitoring of C	f 1.090 per 10,000 popula- because of systematic ingle local case was recorded of malaria, all persons still prevalent as well as efully examined. All persons to time. Other steps to 5 km from inhabited into hodies of water infested hanges in the mosquito
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USSR	UDC:	621.386.6-181.48	
SADCHTKOV P. T. NOVOKI	RESHCHENOVA, O. Ye., MAKAROV, V. A.		
A A A A A A A A A A A A A A A A A A A	ALDREITSNOVA, C. IE., MARAROV, V. A.		
"Strength of Contact Jo:	ints in Hybrid Thin-Film Circuits"		
Elektron, prom-st'. Nau	chtekhn. sb. (Electronics Industr	r Spiontific	
and Technical Collection	1), 1972, No 1, pp 64-66 (from RZh-	Radiotekhnika,	
No 8, Aug 72, Abstract I	To 8v275)	······································	
Translation: The effect	of the welding process on the phys		
(strength) properties of	contact joints in hybrid microcirc	sicomechanical	
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USSR		UDC 669.71.053.4	
NOVOLODSKAYA, A. A.,	AVDEYEVA, T. I.		
"Conditions of Format:	ion of Cancrinite-Like Sodia	m Urducalumandliantan in	
Alumina Production So.	lutions and Their Physical-(Chemical Characteristics"	
lurgii (Collected Worl	s of the All-Union Interuni	prii protsessov tsvetn, metal- versity Scientific Conference	
on the Theory of Dess	and in Nonformour Motelling	gy), Alma-Ata, 1971, pp 431-	
Una die incory of Proce	esses in nonterrous metallur	gy /, Alma-Ata, 19/1, pp 431-	
439 (from <u>RZh-Metallur</u>	rgiya, No 7, Jul 1971, Abstr	eact No 7G201)	
439 (from <u>RZh-Metallur</u>	rgiya, No 7, Jul 1971, Abstr	act No 7G201)	
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TITLECONCENTRATION HETEROGENEI	LASSIFIED TY OF STEEL 110G13L CONTAINING NIDEIUM -U-
AUTHOR-103)-ANIKIN, P.S., NOVOME	ISKIY, YU.D., RASKOLENKD, L.G.
CCUNTRY OF INFOUSSR	
SOURCELITEINDE PROILVOD. 1970,	(3), 36-7
CATE PUBLISHED70	
SUBJECT AREASMATERIALS	
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UDC: 681.327.6 USSR NOVOPASHENNYY, G. N., POTAPKIN, V. K., Leningrad "Order of Lenin" Polytechnical Institute imeni M. I. Kalinin "A Buffer Memory Device" Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 20, Jul 72, Author's Certificate No 343300, Division G, filed 15 Sep 69, Z published 22 Jun 72, p 174 Translation: This Author's Certificate introduces a buffer memory device which contains switches with their first inputs connected together and tied to storage flip-flops while their outputs are connected to shift register cells. The device also contains recording and readout lines. As a distinguishing feature of the patent, the reliability of the device is improved by adding a reversible counter with one of its inputs connected to the readout bus and the other to the recording bus, while the outputs of the counter cells are connected to the second inputs of the switches. 1/1 - 12 stressentes, is. It. S.O. F. Berneraltis määredarendelindettikkelinkännen sikkin henden henden tankan teristist

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CIA-RDP86-00513R002202230003-7

A UDC: 519.1 USSR BALASHOV, O. M., NOVORUSSKIY, V. V. "Concerning Conditions of Invariance of an Open System for Control of a Probabilistic Finite Automaton" Irkutsk, Nekotoryye vopr. optimiz. i upr. v sistemakh energetiki---sbornik (Some Problems of Optimization and Control in Power Engineering Systems -collection of works), 1972, pp 4-10 (from RZh-Matematika, No 9, Sep 73, abstract No 9V440 by A. Muchnik) Translation: For the finite probabilistic automaton 21 defined by the input alphabet $X = \{x_0, \dots, x_{N-1}\}$ and the output alphabet $Y = \{y_0, \dots, y_{K-1}\}$ with the set of states $A = \{a_0, \dots, a_{M-1}\}$ and the set KN of square M×M matrices $\|p(a_1y_1|a_1x_3)\|$. where the element $p(a_iy_i/a_ix_i)$ is equal to the probability that the finite probabilistic automaton will go to state aj after receiving symbol x_j in state ai, giving symbol yz at the output, the authors define the inverse finite probabilistic automaton 21-1 (generally speaking, nonuniquely) in the following way: \mathfrak{Q}^{-1} induces the probabilistic mapping $\Phi: Q \rightarrow P$, where Q and P are sets of output and input words of automaton ? respectively and each solution from the set $\{p_i = \Phi(q_i)\}$, being an argument of the probabilistic 1/3

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BALASHOV, O. M., NOVORUSSKIY, V. V., Nekotoryye vopr. optimiz. i upr. v sistemakh energetiki, 1972, pp 4-10

mapping $\varphi_i P - Q$ produced by finite probabilistic automaton \mathfrak{A} gives the set of solutions $\{q_j = \varphi_i(p_j)\}$, necessarily incorporating word q_j such that $q_j = q_i$.

 \mathfrak{A}^{-1} is given by the set KN of matrices $\|q(b_j \mathbf{x}_j/b_j \mathbf{y}_j)\|$. Each matrix $q(\mathbf{s}, \mathbf{l})$ is constructed on the basis of matrix $p(\mathbf{l}, \mathbf{s})$ for the pair $(\mathbf{y}_{\mathbf{l}}, \mathbf{x}_{\mathbf{s}})$ of automaton \mathfrak{A} . The nonzero elements of matrix $q(\mathbf{s}, \mathbf{l})$ which designate the probabilities of transitions $q(b_j \mathbf{x}_j/b_j \mathbf{y}_j)$ are determined by the same indices i, j as the nonzero elements $p(a_j \mathbf{y}_i/a_i \mathbf{x}_j)$ of matrix $p(\mathbf{l}, \mathbf{s})$ of automaton \mathfrak{A} . But the values of these probabilities must be determined from supplementary "nonzero" conditions on the inverse finite probabilistic automaton (of the type of minimization of some functional on a set of words or the like). A control system scheme (of the "open principle") is considered which is a superposition of an inverse finite probabilistic automaton \mathfrak{A}^{-1} and a finite probabilistic automaton \mathfrak{A} . Two problems are solved relative to this scheme.

The first problem consists in finding the probability of appearance of a signal sequence $y^{*}(t)$ at the output of the circuit if a sequence $z^{*}(t) \equiv y^{*}(t)$ has been sent to the input. The second (dual) problem is to

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USSR BALASHOV, O. M., NOVORUSSKIY, V. V., Nekotoryye vopr. optimiz. i upr. v sistemakh energetiki, 1972, pp 4-10 determine the class of controlling words z*(t) in relation to which the system is invariant; i. e., it retains them at the output with a probability of no worse than p. Two methods are proposed for solving the first problem, one of which saves time but uses a large memory, and the other saves the memory volume but requires a large number of operations. According to the authors, solution of the second problem is based on solution of the first problem. 3/3

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HOTHROPHENSER

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APPROVED FOR RELEASE: 09/17/2001

USSR BALASHOV, O. M. and NOVORUSSKIY, V. V., Nekotoryye Vopr. Optimiz i Upr. v Sistemakh Energetiki, Irkutsk, 1972, pp 4-10 ping $\phi: P \rightarrow Q$, produced by FPA \mathcal{Y} , yields the set of solutions $\{q_i = \phi(p_i)\}$ in which word q_i such that $q_i = q_i$ must be found. \mathfrak{N} -1 is fixed by the set KN of matrices $||q(b_j x_s/b_j y_l)||$. Each matrix q(s,l) is constructed on the basis of matrix p(l,s) for the pair (y_l, x_s) of automaton \mathcal{A} , where the nonzero elements of matrix q(s,l), representing the probability of transitions $q(b_j x_s/b_j y_l)$, are defined by the same subscripts i and j as the nonzero elements $p(a_i y_2/a_i x_s)$ of matrix p(7,s) of automaton 犯. The values of these probabilities must be determined from the supplementary "goal" conditions of the RFPA (such as minimization of a certain functional in a set of words, etc.). The plan of a control system ("open principle") which is a superposition of RFPA \mathcal{U}^{-1} and FPA \mathcal{U} is studied. Two problems are solved concerning this system. The first problem consists in determination of the probability of appearance at the output of the system of a sequence of signals $y^{*}(t)$, if the sequence $z^*(t) \equiv y^*(t)$ appears at the input of the system. The 2/3 -20

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3 USSR BALASHOV, O. M. and NOVORUSSKIY, V. V., Nekotoryye Vopr. Optimiz i Upr. v Sistemakh Energetiki, Irgutsk, 1972, pp 4-10 second, double problem consists in determination of the class of control words z*(t), in relation to which the system is invariant, that is retains them at the output with probability no worse than p. Two methods are suggested for solving the first problem, one of which saves solution time while using much memory, while the other saves memory while requiring many operations. The solution of the second problem, the authors affirm, is based on the solution of the first problem. A. Muchnik 3/3

APPROVED FOR RELEASE: 09/17/2001

Similations	
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NOVORUSSKTY V. V.	
"Data Inversion in Control Problems"	
V sb. <u>Mat. modelir. i teoriya elektr. tsepey</u> (Mathematical Modeling and the Theory of Electric Circuits Collection of Works), vyp. 8, Kiev, "Nauk. Dumka," 1971, pp 26-42 (from <u>EZh-Matematika</u> , No 5, May 72, Abstract No 5V576 by V. MIKHEYEV)	G
Translation: The article describes a plant control method which uses the prin- ciple of data inversion accomplished by means of an inverse mathematical logic model of the plant. Here the aggregate of control actions is regarded as a certain alphabet X, given on a set of values of independent variables (argu-	
values of dependent variables (functions); and the plant itself as that conver- ter S, which realizes the mapping of elements of the first alphabet into the second $y = S(x)(y \in Y, x \in X)$. By an inverse mathematical logic model of a con- trolled plant is meant the relation $x = \frac{S}{-1}(y)$, which effects the mapping of	t t
method is shown from the viewpoint of the invertibility of cause-and-effect networks and the possibility of using it for the control of plants which $1/2$	
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10VORUSSKIY, V. V., <u>Mat</u> pp 26-42	. modelir. i	teoriya elel	ctr. tsepey	, vyp 8, 19	11,	
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Chillen (1997) - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 199 References - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1 UDC: 8.74 USSR NOVORUSSKIY, V. V. V sb. Mat. modelir. i teoriya elektr. tsepey (Mathematical Modeling and Electric Circuit Theory -- collection of works), vyp. 8, Kiev, "Nauk. dumka", 1971, pp 26-42 (from RZh-Kibernetika, No 5, May 72, Abstract No 5V576) Translation: The paper described a method of controlling an object by using the principle of inverse data processing implemented by means of an inverse mathematical logic model of the object. In this regard the aggregate of controlling actions is treated as a certain alphabet X given on a set of independent variables (arguments); the set of responses of the object is treated as an alphabet Y given on a set of dependent variables (functions); and the object itself is treated as a data converter δ which realizes mapping of the elements of the first alphabet into the second $y = \delta(x)$ ($y \in \tilde{Y}, x \in X$). An inverse mathematical logic model of a controlled object is understood to mean the relation $x = \delta^{-1}(y)$ which maps the elements of alphabet Y into alphabet X. The essence of the method of inverse operators is demonstrated from the standpoint of reversibility of cause-and--effect networks, and it is shown that it can be used to control objects which realize an automaton operator. The nature of the limitations with 1/2 - 61 -

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NOVORUSSKIY, V. "Nauk. dumka",	1971, pp 20	6-42	teoriya el	ektr.	tsepey	, vyp. 8,	Kiev,	
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NOVOSADOV, V. S., and SHORSHOROV, M. Kh., Institute of Metallurgy imeni A. A. Baykov

"Liquid Wedge-Like Probe for Investigating the Interaction of Iron and Molten Aluminum"

Kiev, Avtomaticheskaya Svarka, No 9, Sep 70, pp 4-7

Abstract: A liquid wedge-like probe was developed which makes possible easy and fast determination of the conditions for obtaining a good quality fusion (without intermetallides) through the interaction of solid and liquid phases of heterogeneous materials. An experimental, very low density installation $(5 \times 10^{-0} \text{ mm Hg})$ for determining the admissible time of contact as a function of temperature between a sample and molten aluminum is described. The experimental procedure, installation, and liquid wedge-like probe are described and a schematic diagram of the probe is included. After cooling, the wedge-like probe is disassembled, and the samples obtained are cut and investigated by locat x-ray spectral analysis. The typical concentration curves and those illustrating the development rate of heterodiffusion in the contact zone along the length of wedge build-up, are presented in graphs for the case of interaction between Armco iron and aluminum. 1/2

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NOVOSADOV, V	S. and SH	ORSHOROV M	Kh Avto	natich	eksvo (Swanko	No 9 San	
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The results a	show good ag	reement betw	een the exp	perimer	ntal and	l theore	tical data	
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UDC 621.385.623 USSR KORNILOV, S.A., LOMAKIN, G.V., LOSEV, V.L., NOVOSELETS, V.I. "Investigation Cf Fluctuations In Mixer Klystrons" Elektron. tekhnika. Nauchno-tekhn. eb. Elektron. SVCh (Electronics Technology. Scientific-Technical Collection. Microwave Electronics), 1970, No 6, pp 40-50 (from RZh-Elektronika i yeye primeneniye, No 10, October 1970, Abstract No 10A150) Translation: Theoretical and experimental investigations of fluctuations in mixer klystrons caused by the noise of an electron beam show that with a small modulation index of the beam (m \approx 0.1) it is possible by a reasonable tuning of the resonant cavities (the first two resonant cavities are tuned to the frequency of the input signal and the remainder to the frequency of the biased signal) to reduce the level of the phase fluctuations in equal parts of the spectrum by approximately 30 db. Summery. 171

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	USSR	N.	UDC 621.372.85(088.8)	
	SOKOLOV, V. V., ARTEMY	EV, S. M., NOVOSELETS, V.	I.	
	"Frequency Tuning Devi	ce"		
		ate No 259203, Filed 11 0 a, No 9, Sep 70, Abstract	ct 66, Published 17 Apr 70 No 9B154P)	
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	to improve the vibratic an inside thread encomp attached inside the rem of the screw is turned	on resistance of the devi passing the lower part of movable sectional housing into the auxiliary bushi	ce, a smooth bushing with the two-step screw and is used. The upper part ng equipped with a flange	
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	to improve the vibratic an inside thread encomp attached inside the rem of the screw is turned which is installed on t	on resistance of the devi passing the lower part of movable sectional housing into the auxiliary bushi	ce, a smooth bushing with the two-step screw and is used. The upper part ng equipped with a flange	

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4 UDC 621.382.2 USSR DOMANEVSKIY, D.S., LIEOV, L.D., LITVINOV, V.L., LOMAKO, V.M., NOVOSELOV, A.M., RAVICH, V.N., TKACHEV, V.D., UKHIN, N.A. "Effect Of Radiation On Gallium Phosphide P-N Junctions" V sb. Radiats. fiz. nemet. kristallov. T.3. Ch.2. (Radiation Physics Of Nonmetallic Crystals. Vol. 3, Part 2 -- Collection Or Works), Kiev, "Nauk.dumka," 1971, pp 50-53 (from RZh--Elektronika i yeye primeneniye, No 12, Dec 1971, Abstract No 12B534) Translation: The p-n junctions were obtained by the method of liquid epitaxy with n-GaP. The epitaxial p-region was doped with Co and Zn. Irradiation was done with reactor neutrons and also electrons with 28 Mov energy at temperatures above 50° C. The current-voltage characteristics and the electroluminescent spectra were investigated at room and nitrogen temperatures. After irradiation, the forward branch of the current-voltage characteristics is shifted to the region of smaller voltages (the lifetime of minority carriers is decreased) and subsequently with an increase of the flux -- to the side of the larger voltages (increase of the resistivity of the initial material). After irradiation the intensity of all the spectral bands of electroluminescence are decreased. The 1/2unter Repartiel in Stanferer 1995 E 14 ไซต์ซิสรรมนาร์ตอนหมายเราไทยแต่มาระหมายการแก่ไปการแก่ไปการแก่ไปการการการและการการการการการการการการการการการการก

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USSR DOMANEUSKIY, D. S., et al., <u>Radiats. fiz. nemet. kristallov, T.3. Ch.2</u>. (Radiation Physics Of Nonmetallic Crystals. Vol. 3, Part 2--Collection Of Works), Kiev, "Nauk. dunka," 1971, pp 50-53 (from <u>RZh--Elektronika i yeve</u> <u>primenenive</u>, No 12, Dec 1971, Abstract No 12B534) intensity of the red band with a flux docressed approximately 1.5 times more alowly that the green. The opectral composition of the radiation changed after irradiation. The results presented indicats that the change of the electricel and optical characteristics of GeP p-n junctions after irradiation have the seme character as in the case of GaAs p-n junctions. 3 ill. 1 tab. 4 ref. I.M. 2/2 -25-

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