: Rumania CATMUOD CATEGORY 78386 ABS. JOUR. : RZKhim., do. 22 1950, No. : Psemerchi, V. and Tordanescu, R. AHTHOR nevia for: : Physicochemical Methods for the Direct Determination of Phonol in Multicomponent Appraqueous Mixtures. ORIG. PUB. : Rev Chim (RPR), 10, No 1, 30-33 (1959) : A photometric and a conductometric method has ABSTRACT been developed for the determination of phenol (I) in the nonaqueous mixture obtained by the acid decomposition of isopropylbenzene (cumena) hydroperoxide. The cumene, adetone, cumene hydroperoxide, methylstyrene, cuminol, dimethylbenzylphenol, oumerealcha-peroxide, scetophenone, and small p,p'-dihydroxydiphenylpropane present in the above mixture do not interfere with the determination. The photometric method is based CARD: 1/5

-COUNTRY : Rumania

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CATEGORY

ABS. JOUR. : AZKhim., Ro. 22 1959, Ro. 78386

AUTHOR :

ORIG. PUB. :

ABSTRACT : tract is diluted with water to 100 ml, 0.8-2 ml

of the solution obtained are neutralized with 4% HCl to a pH of 7, and the resulting solution is again diluted with water to 500 ml. 2 ml of the I solution prepared as described above are added gradually to 2 ml of a 5% borax solution together with 0.4 ml of 0.27% III and 0.4 ml of 1% IV, the resulting mixture is held over a water bath for 5 min at 37°, the volume is adjusted to 25 ml with water, and after 5 min the

CAMD: 3/5

**三一**う Rumania 1221000 CATLÓURY 78386 : RZKhim., No. 22 1959, No. ABG. JOUR. AUTHOR IMST. TIRLE ORIG. PUB. : resulting solution is analyzed photometrically with a red filter. The Beer law is observed ASSTRACT for I concentrations of 5-15 Y/ml. For the conductometric titration of I in the presence of the above-indicated impurities the optimum medium appears to be 66% isopropyl alcohol (V). 2 ml of the solution to be analyzed (about 0.2 gm I) are placed in the cell to be used for the conductometric titration (Pt-electrodes) together with 33 ml V and 20 ml H2 O2 and the CARD: 4/5 107

CARD: 5/5

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343510004

PSEMETCHI, V.; ZUGRAVESCU, S.

"Organic admixtures for concrete."

p. 39 (Revista De Chimie) Vol. 7, no. 1, Jan. 1956 Bucharest, Rumania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

PSENAK, M.; WOITOWITZ, D.; KOVACS, P.; JINDRA, A., prof. Dr.Mr., (Bratislava, Kalinciakova 8)

Sugar in wood avens (Geum urbanum). Cesk. farm. 14 no.8:397-401 0 '65.

1. Katedra biochemie a mikrobiologie Farmaceutickej fakulty Univerzity Komenskeho, Bratislava. Submitted June 4, 1965.

KOVACS, P.; PSENAK, M.; JINDRA, A.

Biosynthesis of alkaloids. IX. The phenolase complex in poppy plants (Papaver sominferum L.) Cesk. farm. 13 no.4:179-180 My 64

1. Katedra biochimie a mikrobiologie Farmaceutickej fakulty Uk [University Komenskeho], Bratislava.

L 21363-66 ACC NRI AP6010923 SOURCE CODE: CZ/0039/65/026/006/0343/0346 AUTHOR: Psenicka, Bohumil (Engineer) ORG: Electrical Engineering Faculty, Department of Communications, CVUT, Prague fakulta elektrotechnicka, katedra sdelovaci) TITLE: Designing a filter by means of a Rumpelt pattern of the general type SOURCE: Slaboproudy obzor, v. 26, no. 6, 1965, 343-346 TOPIC TAGS: electric filter, signal transmission, approximation AMSTRACT: The article describes the computation of a filter according to the working parameters by means of a Rumpelt pattern of the general type. The method consists in approximating the desired attenuation response by means of the characteristic function  $\emptyset(p)$ , determining it and the transmission coefficient G(p), and realizing the four-terminal network, as two elements of its matrix are known. Orig. art. has: 9 figures and 8 formulas. [JPRS] SUB CODE: 09 / SUBM DATE: 13Jul64 / ORIG REF: 001 / OTH REF: 002 Ceré 1/1

## HORAVKA, F.; PSENICKA, J.

New method for the mechanical grafting of grapevines [with summary in German] Chekh. biol. 1 no.1:130-134 \$52. (MLRA 6:12)

1. Tsentral'nyy institut biologii, fiziologiya rasteniy, Praha,
Tsentral'noye issledovaniye mashin i kollektiv Vinogradarsko-sadovodcheskoy arteli v gorode Znojmo.

(Grapes) (Grafting)

VARECHA, Karel, inz.; PSENICKA, Jaroslav

Parametric amplifier for the microwave band. Slaboproudy obzor 24 no.6:328-334 Je \*63.

1. Tesla Pardubice, n.p., Vyzkumny a vyvojovy zavod Opocinek.

Z/039/60/021/01/004/040 E140/E135

Karel Varecha and Jaroslav Pšenicka (Engineers)

Equipment for Measuring the Conversion Loss of Si Diodes TITLE:

PERIODICAL: Slaboproudý Obzor, 1960, Vol 21, Nr 1, pp 11-15

ABSTRACT: The article first mentions the fact that in Slaboproudy

Obzor, Vol 19, Nr 2, pp 67-72, an equipment for measuring the noise temperature of silicon diodes was described. The present article presents an analysis and design for an equipment which can rapidly measure the conversion loss of silicon diodes. The theoretical analysis and

loss of silicon diodes. design are based on Ref 3. Card

There are 7 figures, 2 tables and 6 references, of which 4 are English and 2 German. 1/1

ASSOCIATION: Výzkum a vývoj radiotechniky, Opočinek

(Radio Engineering Research and Development, Opočinek)

July 17, 1959 SUBMITTED:

AUTHOR:

PSENICKA, Josef, inz.

Safety and health protection of workers in geodesy and cartography. Geod kart obzor 8 no.6:113 Je '62

1. Ustredni sprava geodesie a kartografie.

PSENICKA, P.

Contribution to the study of the skin innervation in certain laboratory animals. I. Rabbit and guinea pig. Cesk. morf. 13 no.32246-251 165.

l. Institute of Anatomy, Medical Faculty, Charles' University in Hrades Kralove, Ozesboslovskia.

PSENICKA, P.

Contribution to the study of the skin innervation in certain laboratory animals. Pt.2. Folia morph. (Praha) 13 no.4:348-351 '65.

1. Anatomical Institute of the Medical Faculty, Charles: University in Hradec Kralove, Czechoslovakia.

PSENICKA,P.; JURIN, I.

The morphological observations of 100 cases Willis' circle in rhesus monkey (Macaca mulatta). Cesk. morf. 12 no.3:321-326 '64

1. Anatomicky ustaw lekarske fakulty Karlovy university Hradec Kralove; prednosta: prof. MUDr. Jan Hromada, DrSc.

### CIA-RDP86-00513R001343510004-0 "APPROVED FOR RELEASE: 06/15/2000

20432-66 EVT(1)/EWP(e)/T/EVP(t) LIP(c) ACC NR: AP6000659

SOURCE CODE: CZ/0055/65/015/009/0667/0677

AUTHOR: Bohun, A.; Sak, J.; Psenickova, M.

ORG: Institute of Solid State Physics, Czechoslovak Academy of Sciences, Prague

TITLE: The theory of chemielectron emission of metals

SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 15, no. 9, 1965, 667-677

TOPIC TAGS: electron emission, chemical absorption, metal, secondary emission, molecular interaction, halogen oxygen nitrogen compound, oxidation

24 45 55 ABSTRACT: The theory of potential molecular electron emission of metals bombarded by hot electronegative molecules was investigated. The most frequently quoted theories of chemiemission (chemically excited excelectron emission), and absorption and oxidation theories were compared by the authors with the hitherto less-known Izmailov-Furman theory of potential secondary emission. The values of yields calculated according to the original or adapted Izmailov-Furman theory are compared with the values of yields measured by Geiger on a series of systems of alkaline metal-halogen molecules (also partly oxygen molecules), and by Lohff and Wüstenhagen on systems of certain non-precious metals (Al, Fe) with oxygen or nitrogen molecules The authors thank Dr. J. Dolejsi and K. Dolezalova for their help during the work and for careful execution of the numerical calculations. Orig. art. has: 13 formula and 3 tables. [Based on authors' abstract.] [NT]

SUB CODE: 07/ SUBM DATE: 30Dec64/ ORIG REF: 004/ OTH REF: 022/ SOV REF: 004

PSENICKOVA, Vera; STIKAR, Jiri

Evaluation of devices for personal hearing protection against noise with special regard to their functional efficiency. Prac. lek. 17 no.7:313-317 S '65.

1. Vyzkumny ustav bezpecnosti prace ROH v Praze.

Practice in using polystyrene in construction. Prom. stroi. 43 no.9:19-20 165. (MIRA 18:9)

# PSHEBEL'SKIY, V.V. Absorption of fall and winter precipitations by soil. Zemledelie 6 no.8:32-35 Ag '58. (MIRA 12:11) 1. Drabovskoye opytnoye pole. (Soil absorption)

PSHEBEL'SKIY, V. V.

PSHEBEL'SKIY, V. V. -- "The Causes of Thinning of Perennial Grasses on the Chernozems of the Drabovo Region and Possible Ways of Eliminating This Phenomenon." Min Higher Education Ukrainian SSR. Ukrainian Order of Labor Red Banner Agricultural Inst. Drabovo, 1955. (Dissertation for the Degree of Candidate in Agricultural Sciences).

So.: Knizhnaya Letopis', No. 2, 1956.

ZAKHARCHENKO, I.G. [Zakharchenko, I.H.], kand.sel'skokhoz.nauk; PSHEEEL'SKIY,
V.V. [Pshebel's'kyi, V.V.]; kand.sel'skokhoz.nauk

Effect of perennial legumes and legume-grass mixtures on soil fertility.
Nauch. trudy UASHN 9:4-17 '59. (MIRA 14:3)
(Grasses) (Legumes) (Soil fertility)

PSHEBEL'SKTY, V. V.

Grasses

Productivity of the grass field depending upon the composition of the seen mixture., Sov. agron, 10, No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1952. 1993, Uncl.

PSHECHENKOV, K.A.; PUGACHEV, A.N.

A continuous line for sorting, washing, and packaging potatoes.

Trakt.i sel'khozmash. no.8:44-46 Ag '62. (MIRA 15:8)

1. TSentral'naya mashinoispytatel'naya stantsiya. (Potatoes)

AVDEYEV, N.Ye.; PUCACHEV, A.N.; PSHECHENKOV, K.A.; CHERNIKOV, B.P.

Machinery tested at the Central Machinery Testing Station. Trakt.
i sel'khozmash. 32 no.4:39-41 Ap '62. (MIRA 15:4)

(Agricultural machinery—Testing)

PSHECHENKOV, K.A.; PUGACHEV, A.N.

Machines for the mechanization of potato growing. Trakt. i sel'khozmash. no.8:40-41 Ag '65. (MIRA 18:10)

1. TSentral'naya mashinoispytatel'naya stantsiya.

WERESHCHAGIN, N.I.; PSHECHENKOV, K.A.

[Working parts of the machinery for cultivating, harvesting and sorting of potatoes] Rabochie organy mashin dlia vozdelyvaniia, uborki i sortirovaniia kartofelia. Moskva, Mashinostroenie, 1965. 266 p. (MIRA 19:1)

VERESHCHAGIN, N.I.; PUGACHEV, A.N.; PSHECHENKOV, K.A.; CHERNIKOV, B.P.

Machines tested at the Central Machinery Lesting Station. Trakt. sel'khozmash. 33 no.6:39-40 Je 163. (MIRA 16:7)

VERESHCHAGIN, N.I.; PUGACHEV, A.H.; PSHECHENKOV, K.A.

Ohe center of potatoes in 30 minutes. Zemledelie 26 no.6:39-52 Je '64. (MIRA 17:8)

1. TSentral'naya mashinoispytatel'naya stantsiya Vsesoyuznogo ob"yedinoniya Soveta Ministrov SSSR po prodazhe sel'skokhozayastvennoy tekhniki, zaspasnykh chastey, mineral'nykh udobreniy i drugikh material' notekhnicheskikh sredstv, organizatsii remonta i ispol'zovaniya mashin v kolkhozakh i sovkhozakh, Solnechnogorskiy rayon, Moskovskoy oblasti.

DOVGALEVSKIY, Yakov Mironovich; PSHECHENKOVA, G.V., redaktor; GOLYATKINA, A.G., redaktor; ATTOPOVICH, H.K., teknischeskiy redaktor

[Alloys for permanent magnets] Splavy dlia postoiannykh magnitov.

Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi
matallurgii, 1954. 157 p.

(Magnets) (Alloys)

PSHECHENKOVA, G.V., kand. tekhn. nauk; SKOKOV, A.D., inzh.

Magnetic alloys for operation at high temperatures. Elektrichestvo no.4:81-83 Ap '65. (MIRA 18:5)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni Bardina.

PSHECHENKOVA, G.V.; CORBUNOV, V.I.

Investigating the connection between the magnetic properties and the microstructure of iron-nickel alloys. Shor.trud.

TSNIICHM no.23:228-247 '60. (MIRA 13:7)

(Iron-nickel alloys--Metallography)

(Magnetic materials)

GUDTSOV, N.T., akademik, redaktor; DAYYDOVA, L.N., sostavitel';

PSHECHENKOVA, G.V., sostavitel'.

[Structural steels; reference book] Konstruktsionnye stali
(spravochnik). Pod nauchnoi red.N.T.Gudtsova. Moskva, Gos.
nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii. Vol. 1. 1947. 481 p.

(Steel, Structural--Tables, calculations, etc.)

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S/137/61/000/010/026/056 A006/A101

AUTHORS:

Pshechenkova, G.V., Gorbunov, V.I.

TIME:

Investigating the correlation of magnetic properties and the micro-

structure of iron-nickel alloys

FERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 10, 1961, 22, abstract 10Zh140 ("Sb. tr. Tsentr. n.-i. in-t chernoy metallurgii", 1960, no. 23, 228 - 247)

TEXT: Fe-Ni alloys melted in an induction furnace contained 2-40% Ni. The content of impurities was (in %): C 0.01 - 0.02. Si 0.04 - 0.1, Mn 0.3 = 0.4, Cu 0.2 - 0.25. Specimens for magnetic measurements were manufactured from 3 mm-diameter wire with 80% degree of reduction: During the heating of alloys with 20 - 30% Ni, having a martensite structure after quenching, the d -> rtransformation proceeds by two ways: 1) expansion from the grain boundaries in the form of areas with dispersed 2-phase structure; the stability of the r-phase increases with lower temperature of its formation owing to its higher Ni-content. 2) allotropic transformation within the range between the beginning and completion of the d -> r-transformation during heating, occurring very rapidly and

Card 1/2

Investigating the correlation ....

30669 8/137/61/000/010/026/056 A006/A101

apparently diffusionless.  $H_c$  of the alloys has a maximum near 28% Ni in quenched alloys and increases as a result of diffusion transformation, accompanied by the formation of the dispersed mixture of 2 phases. There are 6 references.

A. Fedorovskiy

[Abstracter's note: Complete translation]

Card 2/2

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9664/108 motantionana noon 1 19754	Mosov. Testiral'nyy mancho-isakdowikal'skiy isstitut chemoy metallungit. Izstitut pretsizionnyh splavo	Pretaitumyys splary (Precision Alloys) Moscov, Metallurgisdat, 1960. 23) p. (Geries: Its: Stormix trudov, 179. 23) Errata slip inserted. 2,525 copies printed.	Additional Sponsoring Agency: CCR. Complarstvennys planorsys komissiys.	Ed.: D.I. Gabrielyun; Ed. of Pahlishing House: Yo.I. Lewit; Tech. Ed.: Ye.B. Vaynahinyn.	FURDOZ: This book is intended for engineers and scientific personnel in the metallurgical, instrument-prohitton, and sitetifical-equipment inhus stres, as well as for infinitial personnel engaged in the production of precision alloys. It say also be useful to students attending attended technical shoot	covenies the article in this collection present the results of investigation conducted in recent para by the Gentral Scientific Research institute of Perrons Metallury (Sentral by the Gentral Scientific Research institute of metallury; in articles dail with inhibitation is challegues of producing expension and analysis articles and structure of the alloys at retreatly law expensions and in high-frequent suggestic field, deformation taxtures, magnoceritation the galverampquite friety, pulse changes; set, Scommittees are conserved with the investigation of deformed hard agreet allows the personalities are excepted by references, but boots and powered.	Example; 1, V. Errer of Yandlum on the Dermonagnetic Properties of Personne	Ladfors, G.R. and fa.P. Sellently. Dilatometric Investigation of Iron- Colail Alloys	Pating, Yeal, and Le.P. Selissing. Interrelation Seveen the Ordering, Recovery, and Resystationation Processes in Pe-Co Miloys	Palechenburg, 0.7, and V.I. Gorbinor, Investigation of the Consection between Magnetic Properties and Marcetto may of fron-Make ballarys	Experience, M.F. Merovire for Becording Sound and Palses	Representation, M.M. New Materials for hotors of Agricultis Motors and anticological actions of Commences of Commences and Commences of	3-11-1						•		
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TELYUTIN, O.P.; PSHECHENKOVA, G.V.

Investigating alloys in the system Ni - Mn - Cr. Stor. truc.
TSNIICHM no.25:139-213 '62. (MIRa 15:c)
(Nickel-manganese-chromium alloys--Metallography)

iron-coba	rnenium lt alloys	. Sbor.	trud. TSNII	mechanical pro [CHM no.25:227	operties of 7-237 '62. (MIRA 15:6)	
		(Iron-c	obalt-rheni	.um alloys)		- 1
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L 32811-66 EWT(m)/EWP(e)/EWP(w)/T/EWP(t)/ETI IJP(c) JD/HW		
SOURCE CODE: UR/0126/66/021/003/0339/0343	÷.	
AUTHOR: Pshechenkova, G. V.	•	
ORG: Institute of Precision Alloys (Institut pretsizionnykh splavov); TsNIIChERMET		
im. I. P. Bardina		
TITLE: Investigation of the magnetic properties and hardness of iron-cobalt alloys		
SOURCE: Fizika metallov i metallovedeniye, v. 21, no. 3, 1966, 339-345		
TOPIC TAGS: iron alloy, cobalt alloy, magnetic property, hardness, metal heat treat-		
treatment, cooling rate		<b>U</b>
ABSTRACT: This investigation was performed over a wide range of compositions of al-	-	
loys of the Fe-Co system, which at room temperature have a body-contest desired and long materials		
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conditions for the heat treatment of alloys of various chemical composition induc-		, L
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in a hydrogen atmosphere. Specimens taken from the ingots were subjected in the ab-		
sence of a magnetic field; 2) slow cooling from 1100°C in a magnetic field; 3)		٧
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ACC NR: AP6010398

accelerated cooling from 800°C in the absence of a magnetic (cooling rate ~600 deg/hr) 4) accelerated cooling from 800°C in a magnetic field. All specimens were measured for density, coercive force, magnetization curves in fields of up to 800 oe, initial permeability, magnetization energy. In addition their Brinell hardness was measured at temperatures of up to 800°C. Findings: the curves of the dependence of coercive force on composition show that Fe-Co lpha-alloys can be divided into two groups according to their reaction to heat treatment: the alloys in the first group contain up to 40% and more than 60% Co and their coercive force is independent of cooling rate but is greatly reduced in the presence of a magnetic field during heat treatment. This effect may be explained by the theory of directional ordering. The alloys in the second group -- closer to an equiatomic composition -- behave differently: their coercive force markedly increases when the cooling rate is low particularly during cooling in the 600-550°C range, but is weakly affected by thermomagnetic treatment; this effect may be explained by the theory of a high degree of long-range order formation, which conditions the existence of a special ferromagnetic structure stabilized by anti-phase ordering domains and hence also the sharp increase in coercive force during slow cooling, due to the low rate of diffusion at temperatures below 600°C. As for hardness, at room temperature it increases to 220 HB with increase in Co content to 30%; beyond that point it remains relatively constant. Orig. art. has: 6 figures, 1 table.

SUB CODE:

11, 13/ SUBM DATE: 27Aug64/ ORIG REF: 004/ OTH REF: 003

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12:7:42:7:45455

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 330 (USSR)

AUTHORS: Pshechenkova, G. V., Krasnopevtseva, T. V.

TITLE: An Investigation of Fe-Co Alloys With a High Degree of Magnetic Saturation (Issledovaniye zhelezokobal'tovykh splavov s

vysokim magnitnym nasyshcheniyem)

PERIODICAL: Sb. tr. Tsentr. n.-i. in-t chernoy metallurgii, 1956, Nr 15,

pp 102-110

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ABSTRACT: Hardness, microstructure, critical points, and magnetic

properties were investigated in alloys containing 50 percent Co and 2 percent V. V substantially affects the critical points of alloys of the Fe-Co system, by lowering the temperature of the  $\alpha$   $\beta$  transformation. The microstructure of slowly cooled alloys exhibits a characteristic grain lattice, probably due to the phenomenon of orderly regulation of grains. The hardness of cold rolled specimens is considerably increased by heating to  $400-600^\circ$ ; any further increase in temperature reduces the hardness due to incipient recrystallization. Initial permeability is strongly affected by the degree of reduction in the process of

cold deformation. Optimal results are, apparently, obtained at a Card 1/1 60-70 percent reduction. P. N.

1. Iron-cobalt alloys-Properties-Analysis 2. Iron-cobalt alloys-Magnetic properties

\$/776/62/000/025/013/025

AUTHORS: Yelyutin, O.P., Pshechenkova, G.V.

TITLE: Investigation of alloys of the system Ni-Mn-Cr.

SOURCE: Moscow. Twentral'nyy nauchno-issledovatel'skiy institut chernoy

metallurgii. Sbornik trudov. no. 25. Moscow, 1962. Pretsizionnyye

splavy. pp. 189-213.

TEXT: The paper reports the results of an experimental investigation of Reveral alloys of the system Ni-Mn-Cr which exhibit an elevated electrical resistance (ER) and a low temperature coefficient of the ER and which, therefore, are readily utilized for the making of resistor elements which operate in instruments and equipments at near-room T. In addition to the electrical properties of a number of alloys of this system it was found to be necessary, in the interest of the development of suitable manufacturing techniques and related heat treatments, to study the phase composition and the transformation processes therein. The phase diagrams of the systems Mn-Ni and Mn-Ni-Cr are shown. The experimentation comprised a dilatometric analysis, ER measurements, and an investigation of the effects of various elements on the properties of the alloys, an investigation of the effect of heat treatment on the electrical properties of the alloys (performed by I. A. Savost'yanova).

Card 1/3

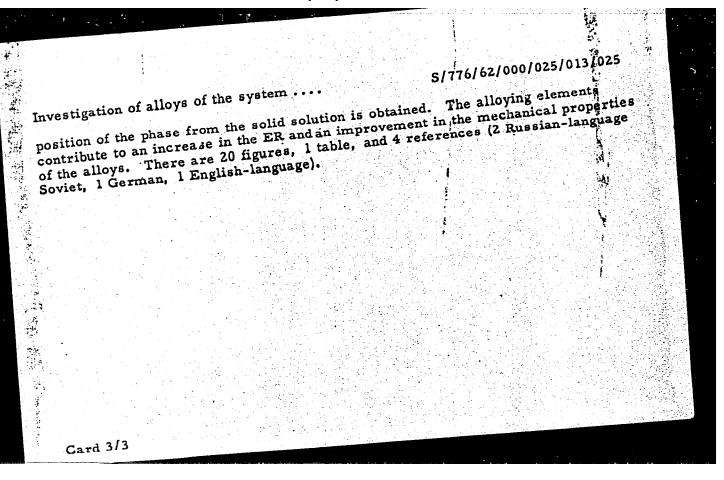
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Investigation of alloys of the system ....

In summary, the test performed in the investigation of alloys of the system Ni-Mn-Cr, containing from 20-45% Mn and 8-10% Cr. permit certain conclusions on the phase composition, transformations, and possible uses of the physical properties of these alloys. The alloy containing 20% Mn and 8% Cr constitutes a single-phase solid solution. During slow heating and cooling in the 400-500°C T interval a K-state forms in the alloy. As the Mn content is increased beyond 23%, an incipient phase transformation of the face-centered γ phase into a face-centered tetragonal ε phase was detected dilatometrically; this transformation was distinctly fixed by the X-ray method at a Mn content of 30%. ER measurements during heating denoted a smooth transition from the single-phase to the two-phase alloys which occurs during an increase of the Mn content from 23 to 28%. The alloys lying, at the boundary of the two-phase region exhibit a fairly elevated ER(1.4 ohm·mm²/m) which increases with increasing Mn content; these alloys have an ER-temperature coefficient varying from positive values to negative values within the T range from room T to 3000. The same properties can be obtained in the two-phase alloy by means of heat treatment that achieves the required solid-solution state in which the new phase does not yet precipitate. The detection of this state is feasible by means of ER measurements and the dilatometric method. An advantage of the alloys obtained from the 2-phase region is the elevated ER. The required state can be obtained by quench or by quench-plus-subsequent-aging, at which the required initial stage of decom-

Card 2/3



5/776/62/000/025/015/025

AUTHOR: Pshechenkova, G.V.

TITLE: The effect of Rhenium on the magnetic and mechanical properties of

Iron-Cobalt alloys.

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy

metallurgii. Sbornik trudov. no. 25. Moscow, 1962. Pretsizionnyye

splavy. pp. 227-237.

TEXT: The paper describes an experimental investigation of the effect of Re on the magnetic and mechanical properties of Fe-Co alloys containing 35-50% Co, which, because of their elevated saturation magnetization, are used in the making of transformer elements and other electromagnetic equipments in which soft magnetic alloys are required. At temperatures (T) below 700°C pure Fe-Co alloys attain an ordered structure, thereupon becoming embrittled. The introduction of Re as an antiembrittlement alloying element was sought to replace such other alloying elements as V and Cr which ensure an adequate ductility after quench but which affect the magnetic saturation and the surface quality of the material. The alloys (chemical composition of 15 melts are tabulated) were smelted in a high-frequency induction furnace and were cast into circular ingots of 5-17 kg. The Re was introduced into the alloy in the form of small rods H-sintered at 1,100°C out of metallic Re powder. Card 1/2

The effect of Rhenium on the magnetic ....

\$/776/62/000/025/015/025

The ingots were forged into plates 10-15 mm thick. After hot rolling at 1,150-1,2000, sheets 1.5-mm thick were obtained which were quenched at 930° and cold-rolled into sheet material 0.35-mm thick. The specimens were made from those sheets after anneal at 920° in H or under vacuum. Three series of alloys were made, containing 25, 35, and 50% Co, respectively, in which the Re content varied from 0 to 1.5%. The C content in all the alloys was 0.015 to 0.020%, that of Si and Mn 0.06 to 0.10%, that of S 0.007 to 0.013%, and that of P 0.002 to 0.008%. Control alloys without Re, but with V, were also prepared. The tests showed that Re increases considerably the strength of practically applicable Fe-Co alloys containing 25, 35, and 50% Co, with a simultaneous noticeable increase in the ductility of the alloys. 1.0 to 1.5% Re exerts also a favorable effect on the microstructure of soft magnetic Fe-Co alloys by favoring an increase in grain size. In alloys containing 25 to 35% Co the Re in the quantities investigated here enters into the solid solutions of the alloys; in alloys containing 50% Co a more-than-1% Re content can form a new Co-Re phase which is indicated by a flexure point on the electrical-resistance curves of annealed alloys and by a significant increase in hardness after anneal There are 7 figures, 2 tables; no references. of the alloys.

Card 2/2

FSHECHENKOVA, G.V.; SKOKOV, A.D.

Temperature dependence of the induction of magnetic saturation of alloys in the system iron - cobalt. Fiz.met.i metalloyed. 14 no.5:797-799 N '62. (MIRA 15:12)

l. Institut pretsizionnykh splavov, TSentral'nyy nauchnoissledovatel'skiy institut chernoy metallurgii. (Iron-cobalt alloys--Magnetic properties)

#### "APPROVED FOR RELEASE: 06/15/2000 。 1. 1997年 - 19

### CIA-RDP86-00513R001343510004-0

43556

s/126/62/014/005/015/015 E073/E535

12 9100

Pshechenkova, G.V. and Skokov, A.D.

AUTHORS:

Temperature dependence of the magnetic saturation

induction of iron-cobalt alloys TITLE:

PERIODICAL:

Fizika metallov i metallovedeniye, v.14, no.5, 1962,

The aim of the work was to obtain diagrams of the saturation induction isotherms of alloys of the system ironcobalt at temperatures up to transition into the non-ferromagnetic state. The alloys used in the experiments contained a maximum of 0.02% C, 0.027% S, the cobalt contents varied between 0 and 95% (in steps of 5%), rest Fe. The alloys were molten in an induction furnace and forged at 1200°C into rods of 15 mm dia. from which specimens of 3 and 6 mm dia. and, respectively, 25 and 120 mm long were produced. On at least two specimens (annealed at 1100°C) of each alloy the saturation induction was measured ballistically at room temperature in a magnetic field of 2740 Oe and then the change in induction with increasing temperature in a field of 2500 Oe was measured by means of an Akulov anisometer. Card 1/2

Temperature dependence of ... 5/126/62/014/005/015/015 E073/E535

Results: At 800°C, when iron is already non-ferromagnetic, an alloy containing 25% Co will still have a saturation induction in excess of 17000 Gauss and an alloy with 30-60% Co will have a saturation induction of about 19000 Gauss. At 700°C the saturation induction of alloys with 50-50% Co is in excess of 20000 Gauss compared to 12500 Gauss for iron. Even at lower temperatures Co-Fe alloys are favourable, due particularly to their higher temperature stability. The temperature coefficient of the saturation induction of iron at 600°C is  $1.3 \cdot 10^{-3}$  deg as compared to  $0.4 \cdot 10^{-3}$  deg for an alloy with 30-50% Co. At 700°C the respective values are  $4.4 \cdot 10^{-3}$  deg and  $0.7 \cdot 10^{-3}$  deg the isotherms of magnetic saturation of the cobalt-base  $\gamma$ -phase and the iron-base  $\alpha$ -phase intersect, indicating the existence of a boundary between the  $\gamma$ -phase and  $\alpha$ -phase base alloys. There are

ASSOCIATION:

Institut pretsizionnykh splavov TsNIIChM

(Institute of Precision Alloys TsNIIChM)

SUBMITTED:

May 4, 1962

Card 2/2

PSHECHEKOVA, G.V.

137-58-2-3851

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 224 (USSR)

AUTHORS: Pshechenkova, G.V., Kadykova, G.N., Artsishevskiy, M.A.

TITLE:

An Investigation of Alloys Based on the Iron-cobalt System and Containing 25-35 ercent Co (Issledovaniye splavov na osnove sistemy zhelezo-kobal't, soderzhashchikh 25-35% Co)

PERIODICAL: Sb. tr. Tsentr. n.-i. in-t chernoy metallurgii, 1956, Nr 15, pp 86-101

ABSTRACT:

The best conditions for the production process and heat treatment of alloys containing not only Fe, but 35% Co and 0.4-0.06% Cr, to guarantee a combination of satisfactory magnetic properties (MP) and adequate ductility, are sought. The effect of other alloying elements (Si, Zr, Al) are investigated. It is found that in order to obtain the best MP it is necessary to cool the alloy slowly (200/hr) after annealing at 850-900°C. However, the metal is brittle in this state. Ductility improves on oil cooling, but this brings a certain impairment of the MP. Cooling in a magnetic field improves MP in the direction of current flow. The most favorable effects upon MP are afforded by combined addition of Cr and Si. A.Z.

Card 1/1

1. Iron-cobalt systems Froduction-Thanksis 2. Iron-cobalt systems -- Heat treatmont .- analysis

PSHECHENKOVA, G.V.

137-1957-12-24905

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 279 (USSR)

AUTHOR:

Pshechenkova, G. V.

TITLE:

An Investigation of Transformations Occurring in Fe-Co-V Alloys Employed for Permanent Magnets and Subjected to Deformation

(Issledovaniye prevrashcheniy v deformiruyemykh

zhelezokobal'tvanadiyevykh splavakh dlya postoyannykh magnitov) Transl. Note: \_''splavov'' in Russian original appears to be a type-

setting error

PERIODICAL:

Sb. tr. Tsentr. n.-i. in-t chernoy metallurgii, 1956, Nr 15,

pp 111-123

ABSTRACT:

An investigation of phase-transformation processes resulting in high magnetic properties of alloys containing 5-18 percent V and 50-52 percent Co. Measurements of changes in the magnetic saturation were performed on Akulov's anisometer. Also measured were the electrical resistance, hardness and microhardness; the microstructure was studied, and dilatometric and some X-ray analyses were performed. From the data of the obtained measurements a section of a phase diagram was con-

Card 1/2

structed for alloys containing 50 percent Co and 8-13 percent V.

37·1957-12 24905

An Investigation of Transformations Occurring in Fe-Co-V Alloys (cont.)

Alloys containing more than 12 percent V possesses the gammaphase structure and undergo no substantial changes during heating or cooling. Plastic deformation of samples extends the region of the Q' - & transformation in the direction of greater V content. It is apparent from the nature of the dilatometric curves that the X - 3 transformation progresses in two stages: the first change occurs in the 450-6500 range then the process subsides until, at 760°, it commences again and continues up to the complete disappearance of the  $\propto$  phase. Optimal magnetic properties are observed in the presence of a mixture of the gamma and alpha phases; this occurs as the result of heating the specimen after subjecting it to severe reduction. The nature of the curves of the magnetic properties indicates that the dispersion of magnetic inclusions, contained in the non-magnetic matrix, and not the occurrence of high internal stresses, is the major factor in the creation of a high coercive force. It is possible that the dispersed magnetic inclusions are monodomous particles magnetized merely by the processes of rotation. The attempt to obtain high magnetic properties by heat treatment only, without resorting to deformation of the sample, failed to yield satisfactory results.

Card 2/2

P.S.

Iron-cobalt-vanadium alloys - Transformations 2. Iron-cobalt-vanadium alloys-Properties

L 22680-66 EWA(d)/EWP(t) IJP(c) JD/HW ACC NR: AP6006709 SOURCE CODE: UR/0105/65/000/004/0081/0083 AUTHOR: Pshechenkova, G. V. (Candidate of technical sciences); Skokov, A. D. ORG: Central Scientific Research Institute of Ferrous Metals (TsWIIchernet im.  $\mathcal{B}$ TITLE: Magnetic alloys intended for operation at high temperatures 44,53, 18 SOURCE: Elektrichestvo, no. 4, 1965, 81-83 TOPIC TAGS: magnetic alloy, high temperature alloy, iron alloy, magnetization ABSTRACT: Connected with the N. Pavlek work (J. Appl. Phys., 1961, v. 32, p. 372), an investigation is described of magnetization curves of Fe and Fe-alloys containing 25, 35, 50, 60, 80, and 95% Co, and also a fe-alloy containing 50% Co and 1.5% Va (permendur) at temperatures up to 900C. Also mechanical characteristics of some alloys at temperatures up to 6000 are reported. It is found that even 25% Co has beneficial effect on the alloy magnetic characteristics. A 50% Co alloy exhibited the highest magnetic properties; at 800 and 9000, in a 1-oe field, the flux densities were 1500 and 1400 gs, respectively; the flux approaches saturation in a field of 32 oe. Alloys containing 35 and 50% Co are brittle at room TDC: 621.318.13

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ACC NR: AP6006709	The same of the sa		0	
temperature; at higher t The tensile strength of to 60 kg/mm² at 400500	emperatures, the 35% Co permendur is 35 kg/mm²; C. Orig. art. has: 5 fi;	alloy has a much hig at room temperature a	ther plasticity.	
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PSHEDETSKAYA, A.D.; SOROKHTIN, G.N.

Reciprocity of the steady polarizing potentials of the muscles in the muscle-stretching reflex in frogs. Fiziol.zhur. 51 no.42472-478 Ap 165. (MIRA 18:6)

l. Kafedra fiziologii zhivotnykh i cheloveka Gosudarstvennogo universiteta, Petrozavodsk.

ANDRIAYNEN, O.A.; PSHEDETSKAYA, A.D.; TSECEL'NITSKAYA, E.V.

Connection between the cardiovascular system and lactation in cows.

Uch.zap. Kar.ped.inst. 8:49-56 '59. (MIRA 13:11)

(Cows) (Lactation)

Preservation of Phytophtora infestans De Bary in culture. Vest IGU 16 no.21:23-31 '61. (MIRA 14:11)

(FUNGI PHYTOPATHOGENIC)
(BACTERIOLOGY—CULTURES AND CULTURE MEDIA)

PSHEDETSKAYA, L.I.; CHEREPANOVA, N.P.

Possibility of the conservation of Phytophthora infestans de Bary in the tubers, plant residues and soil. Uch. zap.
LGU no.313:49-57 '62. (MIRA 15:12)

(Phytophthora)

PSHEDETSKAYA, L.I.; CHEREPANOVA, N.P.

Applying the luminescence method for studying the structure of mycelium of Phytophthora infestants de Bary in tissues of the infested plant. Bot. zhur. 46 no.11:1655-1662 N '61. (MIRA 15:2)

1. Biologicheskiy nauchmo-issledovatel'skiy institut
Leningradskogo gosudarstvennogo universiteta, Staryy Petergof.
(Potatoes---Diseases and pests)

GOLOVIN, P.N.; CHEREPANDVA, N.P.; PSHEDETSKAVA, L.I.

Comparative study of different strains of Phytophthora infestans de Bary. Bot. zhur. 45 no.11:1600-1618 N '60. (MIRA 13:11)

1. Leningradskiy gosudarstvennyy universitet.

(Fungi, Phytopathogenic) (Hightshade--Diseases and pests)

PSHEDETSKAYA, L.I.; CHEEDPANOVA, N.P.; STEPANOVA, A.M.

Physiological and ecological characteristics of three strains of Phytophthora infestans de Bary. Vest. LAU 19 no.15:49-53

164. (MIRA 17:11)

CHEREPANOVA, N.P.; PSHEDETSKAYA, L.I.

Phytophthora infestans DB races in Leningrad Province. Vest. LGU 20 no.21:57-63 '65. (MIRA 18:12)

 L 22366-66 EWT(1)/T JK	
ACC NR: AP6005101 (A) SOURCE CODE: UR/0325/65/000/004/0180/0182	
 AUTHOR: Pshedetskaya, L. I.; Cherepanova, N. P.; Gorobets, A. M. 29	
ORG: none	
	**************************************
TITLE: Preliminary study of the Phytophthora infestans de Bary strain on tomatoes under Leningrad regional conditions	
SOURCE: Nauchnyye doklady vysshey shkoly. Biologicheskiy nauki, no. 4, 1965, 180-182	
TOPIC TAGS: horticulture, plant disease, fungus, plant parasite	
ABSTRACT: This investigation in 1922 of the resistance of different varieties of tomato plants to Phytopothora, infestens included a determination of the strains of the fungus Collected from the tomatoes at the experimental plots of the Leningrad University Biological	
Institute. Only strain 4 and possible strain 0 (as determined according to the Shick scale by means of plant differentiators) were isolated  Cord 1/2	

L 22366 ACC NR:	AP6005	5101					•	0	
2 instan rating o 1963. F	ces, bu bserved urther	it in r . Thi studie	io case La was Sa may	were aggr explained	Strains 1 a essive strains by the favorester variation 1 table.	ains wi orable	th a 3 or growing se	4 scale	
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PSHEIBORSKIY, Sh. [Przedborski, Sz], inzh.

Production of autoclave hardened porous concrete in the Polish
People's Republic. Stroi.mat. 4 no.10:34-38 0 \*58.

(MIRA 11:11)

(Poland--Concrete)

SHALTYKO, G.Ye.; PSHEDETSKAYA, L.I.

Investigating the fungicide properties of shale tars. Zhur.prikl. khim. 33 no.1:212-215 Ja '60. (MIRA 13:5)

1. Leningradskiy institut inzhenerov zheleznogorozhnogo transporta imeni V.N.Obraztsova. (Oil shales) (Fungicides)

PSHEDETSKAYA, L.I. --

"Biological Characteristics of Sumut on Cultivated and Wild Grasses as Data on "hich to Base the Flight Against It." Cand Biol Sei, VASHHNIL, Leningrad, 1953. (RZhBiol, No 3, Oct 54)

Survey of Scientific and Technical Dissertations  $^{\rm D}$ efended at USSR Higher Educational Institutions (10)

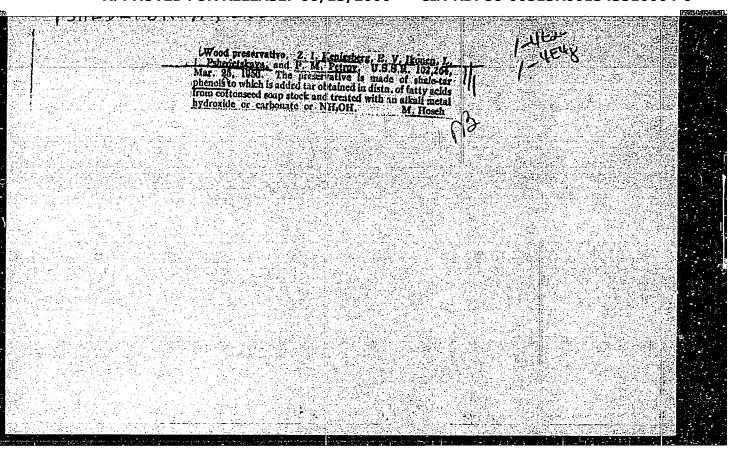
SO: Sum. No. 481, 5 May 55

PSHEDETSKAYA, L. I.

7550

PSHEDETSKAYA, L. I., IKONEN, E. V., RUKOVODSTVO PO PRIMENENIYU EMUL'SI\*ONNOGO ANTISEPTIKA NA OSNOVE SLANTSEVOY GENERATORNOY SMOLY (ANTISEPTIK AEG-2). L.,1954. 8 S 20 SM. (LENINGR. NAUCH.-ISSLED. IN-T AKAD. KOMMUN. KHOZYAYSTVA IM. K. D. PAMFILOVA). 1.000 EKZ. BESPL.-NA I-Y S. SOST: L. I. PSHEDETS KAYA I EV. IKONEN. --(55-4290) 699.87 \$\nneq 674.048\$.

SO: KNIZHNAYA LETOPIS--Vol. 7, 1955



. USSK COUNTRY Q : Farm Animals. CATEGORY General Problems. 1959, No. 25767 : RZhBiol., No. 6, ABS. JOUR. : Tile, I.; Pshenichnaya, V.
: Moscow Academy of Agriculture imeni K. A.\*
: The Application of Antibiotics in Feeding AUTHOR INST. TITLE Young Fowl and Nursing Piglets. : Sb. stud. nauchno-issled. rabot Mosk. s.-kh. akad. im. K. A. Timiryazeva, 1957 (1958), vyp. when 21/2 months old pullets were given 16 mg ORIG. PUB. ABSTRACT of penicillin with their feed, their weight gains increased by 10 percent and the expenditures of digestible nutritive substances were 23.3 percent lewer per 1 kg of weight gain than in control young stock, and correspondingly, the figures for pullets which were each given 24 mg of penicillin, were 5 and 18.5 percent. The egg production of the latter group was 220 percent higher, and 1/2 CARD: \*Timiryazev. **\*\*7, 150-156** 

PSHENICHNAYA, Z.M.

Diagnosis of obliterating endarteritis and ischias. Vrach.delo
(no.6:643 Je '60.

1. Klinika nervnykh bolezney (zav. - prof. G.D. Leshchenko)
Khar'kovskogo meditsinskogo instituta.
(ARTERIES--DISEASES)

(HIP JOEHT--DISEASES)

The "OMK" coal-mining combine. NTO 2 no.5 2 My 160.

The "OMK" coal-mining combine. NTO 2 no.5 2 My 160.

(MIRA 14:5)

1. Institut "Mosbassgiprogormash" g. Stalinogorsk.

(Stalinogorsk—Coal mining machinery)

P/007/62/000/015/001/002 D001/D101

AUTHORS:

Reznikova, V., Candidate of Technical Sciences, and Pshenichner,

B., Member (see Association)

TITLE:

The prospects of space conquest

PERIODICAL:

Skrzydlata Polska, no. 15-16, 1962, 16-17

The article is an informative account of achievements in space research since the first man-made satellite was launched in the USSR. A popular outline is given of prospects in space travel and of the use of satellites in communications, weather forecasting and other services. There are 2 figures.

ASSOCIATION:

Gosudarstvennoye astronomo-geodezicheskoye obshchestvo (National

Astronomo-geodetical Association) (Pshenichner, E.)

Abstracter's note: The Association is mentioned in the periodical

as Astronomo-geophysical

Card 1/1

FIREEOV, A.S.: DAVIDOVICE, YR.G.; FSHENICHKIN, F.A.: GALEYEV, G.S.; TYAN, L.S.

Effect of calcination temperature on the electron paramagnetic resonance of petroleum cokes, Zhur, fiz, khim, 39 no.4:958-961 Ap 165. (MIRA 19:1)

1. Elektrouglinskiy filial mauchno-isaledovatel skogo instituta elektromekhaniki. Submitted Feb. 27, 1964.

21355

S/126/61/011/004/002/023 E032/E314

24.2200 (1137, 1147, 1158)

Volkov, D.I. and Pshenichkin, P.A.

AUTHORS: Paramagnetism of Manganese-Antimony at High TITLE:

Temperatures

Fizika metallov i metallovedeniye, 1961. Vol. 11, PERIODICAL: No. 4, pp. 513 - 518

The present authors report experimental data on the susceptibility of MnSb alloys in the paramagnetic region. In distinction to earlier work, the susceptibility is measured not only near the melting point but well above this point as well. The susceptibility was measured with the aid of the Faraday-Sucksmith method, using argon as the inert medium. The specimens were obtained in a high-frequency vacuum furnace. Fig. 1 shows the reciprocal of the susceptibility as a function of temperature for MnSb (Curve 1), alloys with 25% Mn (Curve 2), 20% Mn (Curve 3), 15% Mn (Curve 4) and 35% Mn (Curve 5). It follows that below the melting point the paramagnetism of MnSb obeys the Curie-Weiss

Card 1/7

21355

S/126/61/011/004/002/023 E032/E314

Paramagnetism of ....

law (melting point approximately 700 - 750 °C). The MnSb alloys represented by Curves 2-4 also obey this law. This is due to the fact that the ferromagnetic compound MnSb is always present in those alloys in which there is less than always present. A different dependence is found in the 31% Mn (by weight). A different dependence is found in the case of Mn<sub>2</sub>Sb (Fig. 2: Curve 1 - Mn<sub>2</sub>Sb; Curve 2 - 40.7% Mn).

Analysis of the data showed that the paramagnetic susceptibility of  $Mn_2Sb$  can be described by the Neel laws with Neel constants  $1/\chi_0 = 270$ ,  $\sigma = 6$  200 and  $\Theta = 553$  K. The MnSb constants  $1/\chi_0 = 100$  manufactures two groups: namely - those

alloys can be divided into two groups; namely - those containing MnSb and obeying the Curie-Weiss law and those near the  $\rm Mn_2Sb$  composition, which are described by the

hyperbolic Neel law

$$\left(\frac{1}{\chi} = \frac{1}{\chi} + \frac{T}{c} - \frac{\sigma}{T - \Theta}\right)$$

Card 2/7

دددت 5/126/61/011/004/002/023 E032/E314

Paramagnetism of ....

Fig. 4 shows 1/n as a function of temperature above the melting point (Curve 1 - 15% Mn; Curve 2 - 25% Mn). Fig. 5 shows the same relationship for alloys with 20% Mn (Curve 1) and 29% Mn (Curve 2). Fig. 6 shows the Curie-Weiss constant, C, as a function of concentration of Mn. The upper curve refers to solids and the lower to liquids. The numerical data are summarised in Table 1. There are & figures, 1 table and 8 references: and 2 non-Soviet.

ASSOCIATION:

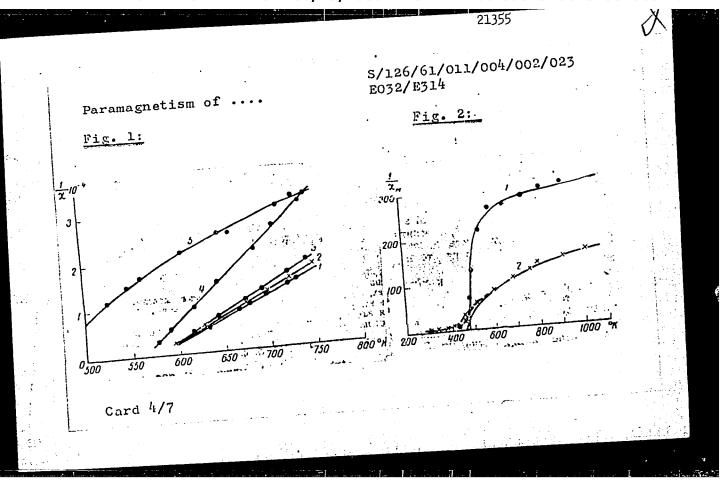
Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova (Moscow State University

im. M.V. Lomonosov)

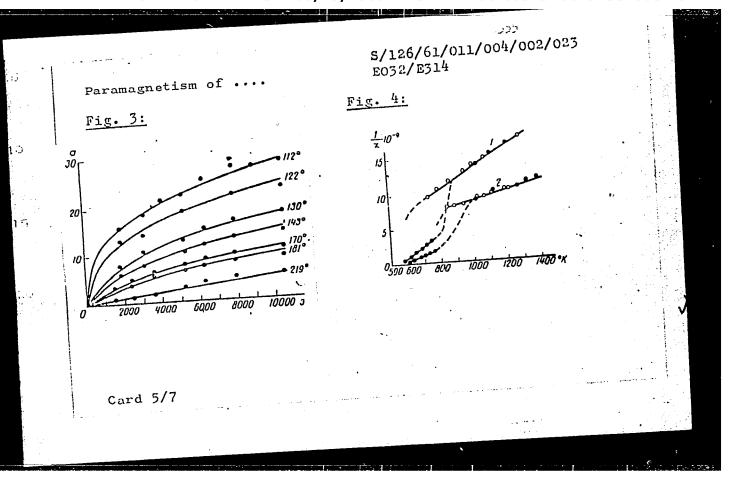
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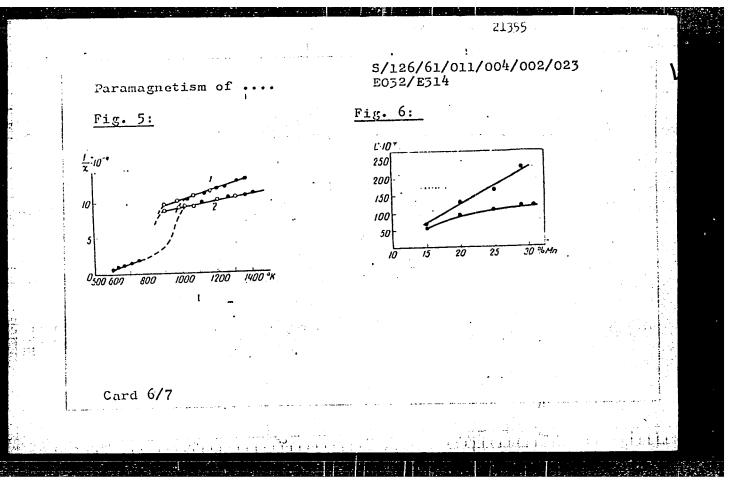
July 8, 1960

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21355

s/126/61/011/004/002/023 E032/E314

Paramagnetism of ....

Table:

Manganese Content, weight %	ė i	liquid	c . 10 <sup>4</sup>	C <sub>liquid</sub> .10 <sup>4</sup>
والمالة المستوانية والمالة المسروبية والمسروبية والمستوانية والهوا				
.15	288	-224	57	70
20	303	600	94	139
25	298	920	1.08	162
29	299	-1390	1.1.6	230
•	•	·		

Card 7/7

# PSHENICHKOV, V.A.

Observations of lunar occultations of stars in Tomsk. Astron. tsir. no.217:15 D '60. (MIRA 14:3)

 ${\tt l.~Astronomiches} kaya~{\tt observatoriya~Tomskogo~gosudarstvennogo~universiteta.}$ 

(Occultations)

UKHANOV, Aleksey Ivanovich; PSFENICHNAYA, G.N., red.; PANKRATOV, A.I., tekhn. red.

[Without manual labor] Bez ruchnogo truda. Ivanovo, Ivanovskoe knizhnoe izd-vo, 1960. 52 p. (MIRA 14:10)

1. Brigadir traktornov grigady kolkhoza im. Dzerzhinskogo, Gavrilovo-Posadskogo rayona (for Ukhanov).

(Gavrilov Posad District—Farm mechanization)

ACC NR: AP7006118

SOURCE CODE: UR/0209/67/000/001/0060/0063

AUTHORS: Snitkovskiy, A. (Candidate of geographical sciences); Sorochinskiy, M. (Candidate of geographical sciences); Pshenichner, B.

ORG: none

TITLE: The satellite searches for hurricanes

SOURCE: Aviatsiya i kosmonavtika, no. 1, 1967, 60-63

TOPIC TAGS: meteorologic satellite, weather forecasting, storm, heat radiation, meteorologic research facility

ABSTRACT: Meteorologic satellites are put into orbits of 600-800 km to relay information and advance warning on the formation and location of hurricanes and cyclones. The satellites also relay information on the distribution of solar energy for long-range weather forecasting and on the distribution of the ultraviolet sector of the solar spectrum for determining czone content and for studying the optic properties of the atmosphere. Kosmos-122 measures atmospheric radiation, radiation the earth, elements of radiation balance, and radiation in ranges 1500 microns and 8-12 microns. Cameras on board take infrared pictures on day and night sides of the earth. Computers reduce the data for a global chart showing distribution of radiation intensity. Plans call for launching additional weather satellites which

Card 1/2

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SUB CODE:22,04/	SUEM DATE: none	
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Card 2/2		. 9 . 1

PSHENICHNAYA, L.E.; SKOROKHOD'KO, E.F.

Information retrieval according to semantic codes. NTI no.6:25-26
(MIRA 17:9)
164.

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PSHENICHNAYA, Z.M.

Change in capillary blood circulation under the action of heat stresses in endarteritis obliterans. Vrach. delo no.12:98-102 D '61. (MIRA 15:1)

1. Kafedra nervnykh bolezney (zaveduyushchiy - prof. G.D.Leshchenko)
Khar'kovskogo meditsinskogo instituta, kafedra nervnykh bolezney
Kiyevskogo instituta usovershenstvovaniya vrachey (zaveduyushchiy zasluzhennyy deyatel' nauki, prof. D.I.Panchenko).
(ARTERIES.\_DISEASES) (HEAT.\_PHYSIOLOGICAL EFFECT)
(BLOOD.\_CIRCULATION, DISORDERS OF)

PSHENICHNIKOV, A.G.; KRYUKOV, Yu.I.; BURSHTEYN, R.Kh.

Electrooxidation of ethylene on electrodes with Pt catalysts. Elektrokhimiia 1 no.12:1476-1479 D '65.

(MIRA 1981)

1. Institut elektrokhimii AN SSSR. Submitted April 3, 1965.

L 31817-66 FSS-2/EWT(1)/EWT(m)/EEC(k)-2/ETC(f)/EWP(j)/T IJP(c) DS/WW/RM/WH

ACC NR: AP6012439 EWP(e) (A) SOURCE CODE: UR/0364/65/001/012/1476/1479

AUTHOR: Pshenichnikov, A. G.; Kryukov, Yu. I.; Burshteyn, R. Kh.

ORG: Institute of Electrochemistry, Academy of Sciences SSSR (Institut elektrokhimii Akademii nauk SSSR)

TITLE: Electrooxidation of ethylene on electrodes containing Pt-catalysts

SOURCE: Elektrokhimiya, v. 1, no. 12, 1965, 1476-1479

TOPIC TAGS: ethylene, fuel cell, electrochemistry, platinum, catalyst, oxidation

ABSTRACT: Since porous electrodes produce large currents per unit area of the apparent surface in this work, oxidation of ethylene on porous gas-diffusion electrodes on the containing platinum catalysts was investigated. Experiments were conducted in 14.5 M phosphoric acid at 150-200°C in a teflon cell. The electrodes were produced by depositing a thin film of catalyst with polytrifluoroethylene on the porous graphite plate and baking at 200°C. The following catalysts were used: (1) platinized carbon containing 10% Pt; (2) catalyst similar to (1) but containing 9% Pt and 1% Rh; (3) carbon mixed with 25% Pt reduced with formaldehyde; (4) platinum block reduced with formaldehyde; (5) skeletal platinum catalyst produced by leaching Pt-Li (1:10) alloy; (6) platinum block with 10% Rh, produced by coprecipitation from H2PtCl<sub>6</sub> and RhCl<sub>3</sub> solutions. Skeletal platinum and platinum containing 10% Rh produces sufficiently active elec-

UDC: 541.135.52-44

Card 1/2

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ACC NR: AP6012439

trodes. For a catalyst containing 10% Rh at 200°C and E=0.55 volt, current density reaches 150-200 ma/cm². Tests of electrode No. 6 for duration of operation show that in the first 2 hrs significant decrease of activity takes place and at 200°C and E= =0.55 v, current density reaches a constant value of 50 ma/cm². Investigations were also made of the effect of temperature on current density. For electrode No. 4, the log of current density is linearly dependent on temperature in the 150-200°C region. From the slope of this line the energy of activation for the oxidation of ethylene was calculated to be 20 kcal/mol·°C. Orig. art. has: 5 figures, 1 table.

SUB CODE: 07,09/ SUBM DATE: 03Apr65/ ORIG REF: 001/ OTH REF: 006

Card 2/2 00

PSHENICHNIKOV, A.G.; SHNAYDER, G.I.

Hydrogen oxidation on a partially immersed nickel electrode when passivation is involved. Elektrokhimiia 1 no.6:640-644 Je '65. (MIRA 18:7)

1. Institut elektrokhimii AN SSSR.

EWT(m)/EPF(c)/ETC/EWG(m)/EWP(j)/T/EWP(t)/EWP(b) IJP(c) DS/JD/JG/RM R: AP5025083 SOURCE CODE: UR/0364/65/001/010/1268/1272 ACC NR: AP5025083 AUTHOR: Burshteyn, R. Kh.; Pshenichnikov ORG: Electrochemical Institute AN SSSR (Institut elektrokhimii AN SSSR) TITLE: Chemisorption and oxidation of hydrocarbons on a platinum electrode I. Ethane v 27 SOURCE: Elektrokhimiya, v. 1, no. 10, 1965, 1268-1272 TOPIC TAGS: hydrocarbon, chemisorption, oxidation, electrode, platinum, electrolytic cell ABSTRACT: It has been demonstrated that the chemisorption of organic substances on platinized platinum is accompanied by processes of dehydrogenation, and hydrogenation and by breaking of the C-C and C=C bonds. It follows from galvanostatic charge curves that, in the chemisorption of ethylene and ethane on a platinum surface, the amount of chemisorbed hydrogen and organic groups depends on the experimental conditions. The present article examines the process of the chemisorption and oxidation of ethane on a platinum electrode, using the method of tri-Card 1/2 UDC: 541.13

L 7972-66 ACC NR: AP5025083

angular pulse voltages with a scanning speed of 5 mv/sec. The i- $\varphi$  curves were recorded with a two-coordinate automatic recording instrument, Type PDS-021. The experiments were carried out in 1 N H<sub>2</sub>SO<sub>4</sub> at 90 C. The electrode, at a given potential ( $\varphi$ ), was brought into contact with a solution saturated with ethane. The residence time in the solution saturated with ethane, at a potential equal to 1.1 volts, was calculated from the moment when the electrode attained a potential of 0.6 volts. Then the hydrocarbon was eliminated from the solution by passing argon through it for a determined period of time. The i- $\varphi$  curves were constructed by taking different intervals of time for the residence of the ethane in the chemisorbed state. The experimental results are exhibited graphically and in tabular form. Orig. art. has: 7 formulas, 5 figures and 1 table

SUB CODE: GC/ SUBM DATE: 30 May65/ ORIG. REF: 003/ OTH REF: 003

Card 2/2

EWT(m)/EWP(1)/EWG(m)/T/EWP(t)/EWP(b)/EWP(z)/EWA(c) IJP(c) ACCESSION NR: AP5012346 UR/0364/65/001/004/0418/0421 JD/HW 541.138.2:546.11 AUTHOR: Pshenichnikov, A. G.; Shnayder, G. I.; Burshteyn, R. Kh. TITLE: Electrochemical <u>oxidation</u> of hydrogen on partially submerged smooth metal electrodes SOURCE: Elektrokhimiya, v. 1, no. 4, 1965, 418-421 TOPIC TAGS: hydrogen, oxidation, nickel, electrode ABSTRACT: A The purpose of this study was to find direct evidence for the existence of a thin film of electrolyte on an electrode partially immersed in a liquid, and to determine the thickness of this layer. The investigations were carried out with hydrogen as the reactive gas phase on a partially immersed smooth nickel electrode. Two electrodes made from spectral grade Ni foil were used. The electrodes were immersed in 1 N KOH. The measurements were made in an instrument in which the nickel electrode could be raised by a special device from the solution into the gas medium. In another instrument the extent to which the electrode was exposed above the solution was controlled by changing the level of the electrolyte in the cell. The ex-Card 1/2

L\_55137-65 ACCESSION NR: AP5012346 periments were carried out in the 21-72°C interval. Measurements of potential were made with respect to the hydrogen electrode in the same solution and at the same temperature. The accuracy of current measurements was 0.1 µa. Equations are derived by which the thickness of the electrolyte film above the bulk of the solution, δ, can be evaluated. At 21°C the value of δ for the two nickel electrodes which were used was found to be 1.8·10<sup>-1</sup> cm and 2.5·10<sup>-5</sup> cm respectively. "The authors wish to express their gratitude to Academician A. N. Frunkin for his participation in the discussion of the results of this work." Orig. art. has: 4 figures and 3 tables. ASSOCIATION: Institut elektrokhimii Akademii nauk SSSR (Institute of Electrochemistry, Academy of Sciences, SSSR) EM. IC SUB CODE: SUBMITTED: 26May64 ENCL: 00 OTHER: 002 NO REF SOV: 007 Card 2/2

PSHENICHNIKOV, A. G.; CHIZMADZHE, I. A.; CHIRKOV, Yu. G.; HURSHTEYN, R. Kh.; MARKIN, V. S.

"Investigation of the Relationship between the Structure and the Electrochemical Properties of a Porous Gas Electrode."

京·科尔·人名 网络阿拉西西西亚巴人格。

Report presented at the 11th meeting CITCE, Intl. Comm. of Electrochemical Thermodynamics and Kinetics, Moscow, 19-25 Aug 63.

Institute of Electrochemistry, Academy of Sciences of USSR.

VASIL'YEV, Yu.B., kand. khim. nauk; ISHENICHNIKOV, A.G., kand. khim. nauk

International Congress on Electrochemistry in Moscow. Vest. AN SSSR 33 no.12:55-57 D '63. (MIRA 17:1)

### PSHENICHNIKOV, A.G.

Some problems in the theory of porous electrodes. Dokl. AN SSSR 148 no.5:1121-1124 F '63. (MIRA 16:3)

1. Institut elektrokhimii AN SSSR. Predstavleno akademikom A.N.Frumkinym.

(Electrodes) (Porous materials)

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AID P - 5107

Subject

: USSR/Engineering

Card 1/1

Pub. 110-a - 10/18

Author

: Psnenichnikov, A. G., Eng.

Title

· ----Transformation of the chemical energy of fuel into electric power in fuel cells (News From Abroad).

Periodical

: Teploenergetika, 10, 47-51, 0 1956

Abstract

This article is based on foreign scientific literature

(American, English, German). 2 tables, 4 diagrams.

12 references.

Institution: None

Submitted : No date

CIA-RDP86-00513R001343510004-0" APPROVED FOR RELEASE: 06/15/2000

VASIL'YEV, Boris Vasil'yevich, kand. khim. nauk; PSHENICHNIKOV, Aleksandr Georgiyevich, kand. khim. nauk; FRUMKIN, A.N., akademik, red.; MEL'NIKOVA, Zh.M., red.

[Korizons of electrochemistry] Gorizonty elektrokhimii.

Moskva, Znanie, 1965. 42 p. (Novoe v zhizni, nauke, tekhnike. XI Seriia: Khimiia, no.4) (MIRA 18:4)

BURSHTEYN, R.Kh.; PSHENICHNIKOV, A.G.; SHUMILOVA, N.A.

Mechanism of the operation of diffusion electrodes. Dokl. AN SSSR 143 no.6:1409-1412 Ap '62. (MIRA 15:4)

1. Institut elektrokhimii AN SSSR. Predstavleno akademikom
A.N.Frumkinym.
(Electrodes)

L:29136-65 EWT(m)/EPF(c)/EWG(m)/EWA(d) RWH/JD/JG/WB/RM	/ENP(j)/T/ENP(t)/ENP(b) Pc=4/PT=4 IJP(c)
ACCESSION NR: AP5005895	<b>S/</b> 0020/65/160/003/0629/0632
AUTHORS: Burshteyn, R. Kh.; Tyurin, V.	S.; Pshenichnikov, A. G. 39
FITLE: Electrochemical oxidation of hyd SOURCE: AN SSSR. Doklady, v. 160, no.	
in acid and alkaline solutions by means iments were made on platinum-plated elec	of ethane and ethylene on a platinum surface of charge curves was investigated. Expertiones having an area of 4 cm <sup>2</sup> . The rough-
the hydrogen charge curve. The charge cosphere. The electrode voltage was reduced electrode in the same solution, and the voltage became negative. When this volt was changed to an argon atmosphere, and	
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