85412

A Study of the Ramification of Butadiene Rubbers

S/190/60/002/011/006/027 B004/B060

ramification of the chain was estimated. Depending on the degree of approximation, the authors found for ΔΕ ~5000 cal/mole and 13.000 cal/mole. Another result was the dependence of ramification not only on ΔΕ, but also on the solubility in the polymer at different temperatures. This was determined by means of an apparatus devised by G. F. Lisochkin and F. D. Belostotskaya. It was further found that the ratio of [η] for fractions with equal molecular weight does not vary in good solvents (tenzene), and therefore, that the ideal solvent need not be applied. The authors mention V. N. Tsvetkov, O. B. Ptitsyn, A. D. Abkin, and S. S. Medvedev. There are 4 figures, 4 tables, and 24 references: 8 Soviet. 15 US, and 1 Swiss.

ASSOCIATION: Vsesoyuznyy nauchno-issledovateliskiy institut
sinteticheskogo kauchuka im. S. V. Lebedera (All-Union
Scientific Research Institute of Synthetic Rubber imeni
S. V. Lebeder)

SUBMITTED: April 21, 1960

Card 5/5

PODDUHNYY, I.Ya.; KRENBURG, Ye.G.; CHERNOVA-IVANOVA, Ye.P.; KARTASHEVA, G.G.

Effect of the association of polybutadiens macromolecules in various solvents. Dokl. AN SSSR 148 no.2:384-387 Ja 163.

(MIRA 16:2)

1. Nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S.V. Lebedeva. Predstavleno akademikom V.A. Karginym. (Butadiene polymers) (Molecular association)

ERENDZHENOV, N., traktorist (Chistozernyy rayon, Novosibirskaya oblast!)

Work to the designers. Sel'.mekh. no.3:32 '62. (MIRA 15:3)

(Tractors—Cold weather operation)

RYBCHINSKAYA, Ye.M., kand.med.nauk; ERENKRANTS, D.I., dotsent (Odessa)

Effect of oxygen baths on the permanent fluctuations of the blood sugar level in the hypersthenic form of neurasthenia. Vrach. delo no.11:85-90 N '61. (MIRA 14:11)

1. Ukrainskiy institut kurortologii i fizioterapii.
(NEURASTHENIA) (BLOOD SUGAR)
(OXYGEN_THERAPEUTIC USE)

ERENKRANTS, L.G.

CONTRACTOR OF THE PARTY OF THE

Roll mandrel for rolling automobile parts. Avt. i trakt. prom. no.6:27-29 Je *56. (MLRA 9:9)

 Gor kovskiy avtozavod imeni Molotova. (Metals--Finishing)

ERENKRANTS, L.G.

Cutting tools for machining precision holes. Avt.prom. no.1: 39-43 Ja 160. (MIRA 13:5)

1. Gor'kovskiy avtozavod.
(Metal-cutting tools)

ERENKRANTS, L G

PHASE I BOOK EXPLOITATION SOV/5581

Moscow. Dom nauchno-tekhnicheskoy propagandy.

Vysokoproizvoditel'nyy rezhushchiy instrument [sbornik] (Highly Productive Cutting Tools; Collection of Articles) Moscow, Mashgiz, 1961. 354 p. Errata slip inserted. 10,000 copies printed.

Sponsoring Agency: Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy RSFSR. Moskovskiy dom nauchno-tekhnicheskoy propagandy imeni F. E. Dzerzhinskogo.

Ed. (Title page): N. S. Degtyarenko, Candidate of Technical Sciences; Ed. of Publishing House: I. I. Lesnichenko; Tech. Ed.: Z. I. Chernova; Managing Ed. for Literature on Cold Treatment of Metals and Machine-Tool Making: V. V. Rzhavinskiy, Engineer.

PURPOSE: This collection of articles is intended for technical personnel of machine, instrument, and tool plants.

Card 1/6

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041221

Highly Productive Cutting Tools (Cont.)

COVERAGE: The collection contains information on the following:
new brands of high-speed steels and hard alloys; designs of
built-up tools and tools for the machining of holes; tools
for machining heat-resisting and light-metal alloys and plastics;
tools for unit-head machines and automatic production lines;
and methods for the sharpening and maintenance of carbidotipped tools. No personalities are mentioned. There are 56
references, mostly Soviet. References accompany some of the
articles.

TABLE OF CONTENTS:

Foreword

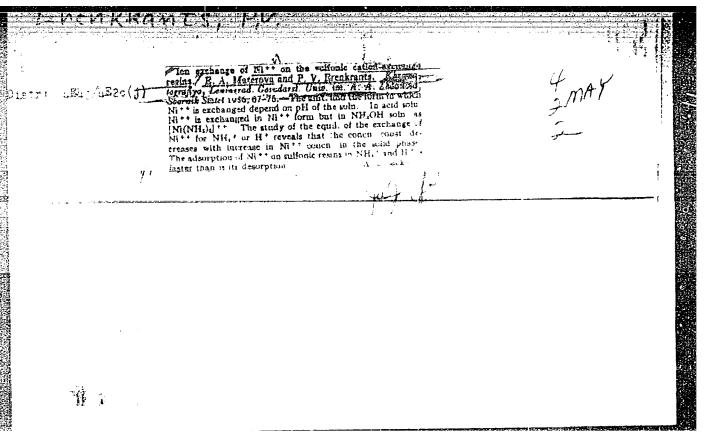
I. NEW BRANDS OF HIGH-SPEED STEELS AND HEAD ALLOYS

Geller, Yu. A. [Doctor of Technical Sciences, Professor]. Highly
Productive High-Speed Steels

7

Card-27/6

Washing Broductive Cutting Tools (Cont.) SOV/5581	3
Highly Productive Cutting Tools (Cont.) SOV/5581	
Smirnov, F. F. [Candidate of Technical Sciences]. New Types of Carbide Alloys for Cutting Tools	22
II BUILT-UP TOOLS AND TOOLS FOR MACHINING HOLES	
Akimov, A. V. [Candidate of Technical Sciences]. Advanced Design of Single-Point Tools	43
Morozov, P. I. (From the Experience of the Zavod imeni Kalinina Plant imeni Kalinin). Application of Coramic Materials	65
Yeremeyeva, N. M. Geometry of Tools for the Machining of Holes	79
Fadyushin, I. L. Carbide-Tipped Boring Tools for Machining Holes in Frame-Type Parts	90
Erenkrants, L. G. Tool Designs for Machining Precision Holes	111
Markov, R. I. New Design of a Broach With Carbide Blades	128
Card-3/5	



ERENPREYS, Ya. G., Candidate Med Sci (diss) -- "The effect of bone regeneration on the growth and differentiation of sarcoma S 465". Riga, 1959. 14 pp (Min Health Latvian SSR, Riga Med Inst), 400 copies (KL, No 23, 1959, 174)

ERENPREYS, Ya. [Erenpreiss, J.] (Riga)

Concerning the method of histochemical research of bone tissue.

Report 1. (To be contd.) Vestis Latv ak no.10:123-128 60.

(EEAI 10:9:10)

1. Akademiya nauk Latviyskoy SSR, Institut eksperimental noy meditsiny.

(Histochemistry) (Bone)

ERENPREYS, Ya. [Erenpreiss, J.]

Histochemical study of alkaline phosphatase in bone regeneration. Vestis Latv ak no.5:165-171 '61.

1. Akademiya nauk Latviyskoy SSR, Institut eksperimental'noy SSR, klinicheskoy meditsiny.

ERENPREYS, Ya. G.

On the problem of embryonic characteristics of malignant cells. Vop. klin. lech. zlok. novoobraz. 7:9-26 161.

1. Kafedra gistologii (zav. prof. K. S. Bogoyavlenskiy) Rizhskogo meditsinskogo instituta (dir. prof. V. A. Kal¹berg).

(NEOPLASMS pathol)

ERENPREYS, Ya. [Erenpreiss, J.]

Histochemical characteristics of Guerin's carcinoma. Vestis Latv ak no.4:117-121 '62.

ERENPREYS, Ya. [Erenpreiss, J.]

Correlation between alkaline phosphatese and neutral polysaccharides in regeneration of bone. Vestis Latv ak no.2:103-107 162.

1. Institut eksperimental noy i klinicheskoy meditsiny AN Latviyskoy SSR.

*

ERENPREYS, Ya.G. [Preopress, J.]

Growth of Guerin's carcinoma in the regeneration zeros of bones in rats. Vop. onk. 8 no.12:51-57 '62. (MINA 17:6)

1. Iz sektora morfologii i fiziologii (zav. akademik AN latviyskoy SSR, prof. P.Ya. Gerke) Instituta eksperimentaliney i klini heskoy mesitsiny AN Latviyskoy SSR (dir.-akademik AN latviyskoy SSR (qr.f.P.Ya. Gorke). Adres autora;Ruga 4, ulitsa Altinavas, 6, Institut eksperimentaliney i klinicheskoy meditsiny SSR latviyskoy SSR.

.ERENPREYS, Yan-Ol'gert Gustavovich [Erenpreis, Jan]; KRYLOVA, N., red.;
LEMBERGA, A., tekhn. red.

[Significance of nucleic acids in differentiation and malignant degeneration] Rol' nukleinovykh kislot v differentsirovke i malignizatsii. Riga, Izd-vo Akad. nauk Latviskoi SSR, 1963. 167 p. (MIRA 16:6) (NUCLEIC ACIDS) (CANCER RESEARCH)

S/510/60/014/000/002/006 D244/D307

AUTHORS: Pokatilo, N.A., Yerasova, Ye.L., Unmut, A.M., Erentsel',

B.A., and Topchiyev, A.V.

TITLE: Preparation of isotactic polybutylene

SOURCE: Akademiya nauk SSSR. Institut nefti. Trudy, v. 14, 1960,

Khimiya nefti, 58 - 64

TEXT: In view of the improved mechanical properties of $poly-\alpha-buty-lene$ the polymerization of α -butylene with the application of complex organometallic catalysts was investigated. Al(C₂H₅)₃ - TiCl₄ and Al(iso-C₄H₉)₃ - TiCl₄ systems were used as catalysts. The polymerization was carried out in a glass apparatus under atmospheric pressure and also at temperatures and pressures close to the critical values for α -butylene. In the latter apparatus α -butylene served as the solvent as well as the part of liquid α -butylene unused in the reaction. The best conditions found for the polymerization with (C₂H₅)₃ Al - TiCl₄ were as follows: 1) Molar ratio (C₂H₅)₃Al : TiCl₄ = 8:1; Card 1/2

Preparation of isotactic polybutylene S/510/60/014/000/002/006 D244/D307

reaction temperature 20° - 30° C; reaction time 3 hrs. With iso - $(C_4H_9)_3Al$ - TiCl₄ the best conditions are as follows: 1) Molar ratio iso - $(C_4H_9)_3Al$: TiCl₄ = 1:1; 2) Reaction temperature 20° - 30° C, reaction time 5 hrs. There are 9 figures.

Card 2/2

ERENYI, Tibor

The First National Trade Union Congress of Hungary. Hung TU no.3/4:10 '63.

ERESHOV, B.B.

Case of a stomach stone. Zdrav. Turk. 7 no.1:24-25 Ja 163.

(MIRA 16:3)

1. Iz khirurgicheskogo otdeleniya (zav. - A.A. Shulev) Chardzhouskoy oblastnoy bol'nitsy (glavnyy vrach A.Ye. Yeldashev).

(HEZOAR)

ERESHEV, B.E. (Chardzou)

Stomach separated from the duodanum by a traumatic isolated tear. Zdrav. Turk. 7 no.5:18 (41). May '63. (MIRA16:8) (STOMACH—WOUNDS AND INJURIES)

MARIMOV, Sh.M.; MRESHOV, M.B.

Development of cutaneous leishmaniosis into skin cancer. Izv.AM (MIRA 9:5) Turk.SSR no.3:86-87 '55.

1. Turkmenskiy gosdarstvennyy meditsinskiy institut imeni I.V. Stalina. (LEISHWANIOSIS)

ERESHOV, M.E.

Ereshov, M.

"Borovskiy's disease (cutaneous leishmaniasis) in the city of Ashkhabad." Tashkent State Medical Inst imeni V. M. Molotov. Tashkent, 1956. (Dissertation for the Degree of Candidiate in Medical Science)

So: Knizhnava letopis', No. 25, 1956

KARIMOV, Sh.M. TERESHEV, M.E.

On the problem of a tuberculoid form of leishmaniasis. Vest.ven. i derm. 30 no.4:57-58 Jl-Ag '56. (MLRA 9:10)

1. Iz kafedr patologicheskoy anatomii i kozhno-venericheskikh bolezney Turkemskogo meditsinskogo instituta. (ASHKHABAD--IRISHMANIASIS)

KARIMOV, Sh.M.; ERSHOV, M.E.

Consecutive granulomee in leishmaniasis. Vest.ven. i derm. 30 no.5:
54 S-0 *56.

(MLRA 9:12)

ERES'KO, M. A.

ERES'KO, M. A. — "The Microflora of the Gall and the Clinic of Colecyst Angiocholitis." Min of Health Ukrainian SSR, Kiev Order of Labor Red Benner Med Inst imeni Academician A. A. Bogomolets, Kiev, 1956. (Dissertations for the Degree of Candidate in Medical Sciences.)

KNIZHNAYA LETOPIS No. 41, October 1956

ERESNOV, N., insh.

Correct organization of street cleaning. Zhii.-kom. khoz. 11
mo 1:20-21 161. (MIRA 14:2) no.1:30-31 '61. (Street cleaning)

YEREZ, B.M.

Extracardial nerves in man. Arkh. anat., Moskva 19 no.1:38-42 Jan-Feb 52. (CIML 21:5)

1. Docent. 2. Of the Department of Normal Anatomy (Head--Prof. F.A. Volynskiy), Odessa Medical Institute imeni N.I. Pirogov (Director---Prof. I.A. Deyneka).

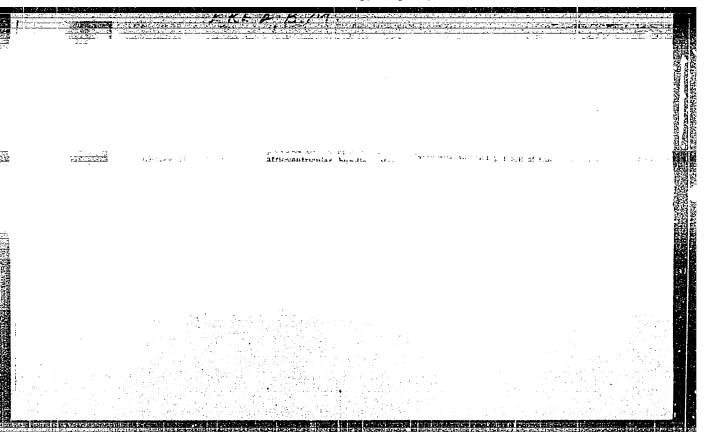
EREZ, B.M.

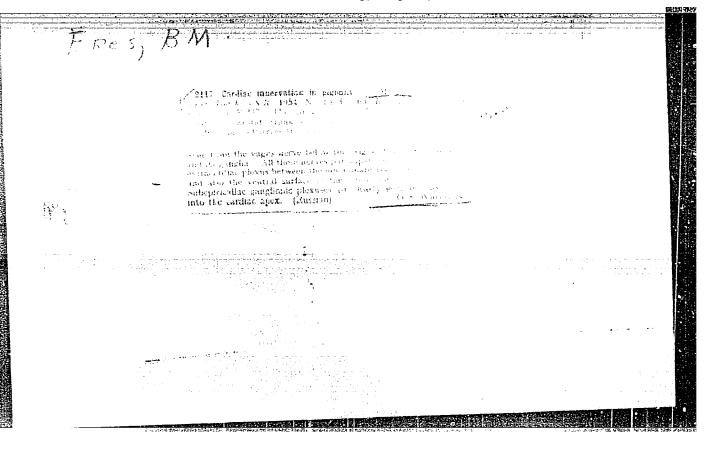
Macroscopic and microscopic study of the upper cardiac branch (the depresser) in man. Dokl.AN Tadah.SSR no.12:77-82 154.

(MIRA 9:9)

l.Kafedra nermal'ney anatemii Stalinabadskego gesudarstvennege meditsinskege instituta imeni Avitsenny.

(VAGUS NERVE)





USSR/Human and Animal Morphology (Mornal and Pathological) Poripheral Norvous System

S-3

Abs Jour : Rof Zhur - Biol., No 12, 1958, No 55091

: Eros. B.M. **Nuthor**

: Tedzhikisten Institute.

: The Froblem of the Extracordice Nerve System in Dogs. Inst Title

Orig Pub : Uch. Zep. Trdzh. in-t, 1955, 6, 145-153

Abstract: With the methods of meero- and microscopical alides, as well es by using steining methods recording to Kondretyev, it was ostablished that the number of innervation sources of the hoert in dogs is considerably larger than has been previously described. Cardise narvas were discovered which originate at the upper cervicel node and at the thorecic colleteral stom. The topography of the cardine nerves is now more accurately defined. These cerdisc nerves originate in the therecie nodes of the bordering sympethetic stem, in the thorseic collatoral stom, and in the intermediate corvical node. The

1 1/2 Cerd

20

USSH / Human and Animal Morphology - Nelvous Co

: Ref. Zhur. - Biol., No. 22, 1958, No. 101474 Abs Jour

Author

: Erez, B. M. : Stalinabad Medical Institute

: Innervation of the System Which Conducts Impulses Inst Title

in the Heart of the Guinea Pig.

: Tr. Stalinabadsk, med. in-ta, 1955, Vol. 14, Orig Pub

41-48.

: Macroscopic and microscopic studies by the method Abstract

of Vorob'yev-Sinel'nikov, along with histologic studies, have shown that the elements of the conducting system of the heart in the guinea pig do not differ in structure from the other cardiac musculature. The abundantly-innervated nodes of Kis-Flek and of His-Tavar are inter-connected by means of a venous sinus and by extra-cardial nerve trunks. The venous sinus is an inseparable

part of the conducting system of the heart, since along it pass nerve fibers which connect the sinus

Card 1/2

S

USSR/Human and Animal Morphology (Normal and Fathological) Norvous
Systom.

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 31212

Author : Erez B. ...

Inst : Not Given
Title : Chengos of the Nervous System of the Human Heart During

Fathological Conditions.

Orig Fub : Tr. Stelinebedsk. med. in-to, 1955, 14, 49-51

Abstract: 30 corpses of meanates and adults are studied, who had died from deforming arthritis, brain aboust, pneumonia, tuberoulosis or cancer of the lung, cancer of the esophagus, cardiosclerosis, of myocardial inferction, and other causes. In every case, changes of themerve calls and fibers in the heart were found. Calls are strophied; fibers show increased argyrophillic or fragmentation. Prograglionic fibers are most labile (area of sinus node, coronary sinus, artium cordis, first part of the atrioventricular cluster). Postganglionic fibers (ventricles, pedicles of the atrioventricular cluster)

Card : 1/1

10

USSR/Human and Animal Morphology (Normal and Fathological) Norvous

Systom

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 31207

: Erez B.M. Author : Not Given Inst

: Collatoral Trunks of the Autonomic Nervous System of Man in Title

the Arer of the Neck and the Thoracic Cavity.

Orig Pub: Tr. Stelinegedsk. Med. in-to, 1955, 14, 89-92

Abstract : Collateral nerve trunks were found in the neck and in the thoracic cavity in the material of 65 human corposs, by means of a preparation and of an elective tineture according to the method of N.S. Kondret'yev. In the area of the neck, from both sides, two basic forms of supplementary trunks of the cutonomic nervous system are distinct: 1) form of the node colleteral trunk and 2) form of "intermediate" or vagosympathetic accumulation of the nak. Both from the neck and from the thorax, collateral trunks branches are traced

to the cardina accumulation.

Cord : 1/1

USSR/Human and Animal Morphology (Normal and 1 4. ... 7 S-2 Pathological). Nervous System. Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., No 16, 1950, 74303

Author : Erez, B. M., Mirzoyev, Kh. Kh. Inst : Stalinabad Medical Institute.

Title : Macro-Microscopic Investigation of the Recr-

rent Nerve in Dogs and Cats.

Orig Pub: Tr. Stalinabadsk. med. in-ta, 1955, 14, 95-98

Anstract: The recurrent nerve (RN) was studied in 20 dogs and 20 cats for the purpose of clarifying its connections with other nerves and its structure in the trunk. RN stons from the trunks of the nerve vagus on the level of the aertic arch (on the left) and

Card : 1/3

USSR/Human and Animal Morphology (Normal and Pathological). Nervous System Periphoral Mervous System. 3-2

Abs Jour: Ref Zhur-Biol., No 16, 1950, 74303

arteria subclavia (on the right) and rises up to the laryx as inferior laryngeal nerve group. Superior and anterior laryngeal nerves are often connected by anastamosis. The branches of the beginning portion of RN are connected with the cardiac nerves which depart from the caudal cervical ganglion and numbering 1-3 run to the heart, enter (in dogs) into the main cardiac branch of the nerve vagus, innervate the trachea and esophagus. Additional RN are discovered, with varying places of departure, which run parallel to the main trunks of RN and innervate

Card : 2/3

USSR/Human and Animal Morphology (Normal and Fathological) Nervous System.

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 31206

Author : Erez B.M.
Inst : Not Given

Title : Macro- and Microscopic Investigation of the Human Recurrent

Laryngeal Norvo.

Orig Fub: Tr. Stelinebedsk. mod. in-te, 1955, 14, 99-105

Abstract: On the basis of the study of 85 cases the course of both recurrent laryngeal nerves is described. In a majority of preparations, right and lift accessory recurrent laryngeal nerves are found. In the trunks of all of these nerves, there are fine accumulations of genglion cells non modulated fibers alternate with modulated. The latter appear in the given

nerves from the third month of prenstel life.

Cord : 1/1

EREZ, B.M.

Intracardiac nervous system in certain birds. Dokl. AN Tadsh.
SSR no.15:95-100 '56. (MLRA 9:10)

1. Kafedra normal'noy anatomii Stalinabadskogo gosudarstvennogo meditsinskogo instituta imeni Abuali ibn-Sino.

(Nervous system--Birds) (Heart--Innervation)

EREZ, B.M.

Intracardiac nervous system in certain reptiles. Dokl.
AN Tadzh.SSR no.15:101-103 '56. (MLRA 9:10)

1. Kafedra normal'noy anatomii Stalinabadskogo gosudarstvennogo meditsinskogo instituta imeni Abuali ibn-Sino.

(Nervous system--Reptiles) (Heart--Innervation)

EREZ, B.M.

Charles and the Control of the Contr

Extracardiac nerves in turtles. Dokl. AN Tadsh.SSR no.15: 105-111 '56. (MCRA 9:10)

1. Kafedra normal'noy anatomii Stalinabadekogo gosudarstvennogo meditsinskogo instituta imeni Abuali ibn-Sino.

(Turtles) (Nervous system--Reptiles) (Heart--Innervation)

EREZ, B.M.: KRASNOSHTEYN, S.R.

Range of location of the phrenic nerve in human pectoral and abdominal cavities. Dokl. AN Tadzh.SSR no.16:99-100 '56.

(MLRA 9:11)

1. Kafedra normal'noy anatomii Stalinabadskogo meditsinskogo instituta imeni Abuali-ibi-Sino i Kafedra normal'noy anatomii Stavropol'skogo meditsinskogo instituta. Predstavleno chlenom-korrespondentom Akademii nauk Tadshikskoy SSR Ya.A. Rakhimovym. (PHRENIC NERVE)

KRASNOSHTEYN, S.R.; EREZ, B.M.

Location of the phrenic nerve in dogs. Dokl. AN Tadsh.SSR no.16:111-116 '56. (MLRA 9:11)

1. Kafedra normal'noy anatomii Stalinabadskogo meditsinskogo instituta imeni Abuali-ibi-Simo i Kafedra normal'noy anatomii Stavropol'skogo meditsinskogo instituta. Predstavleno chlenom-korrespondentom Akademii nauk Tadshikskoy SSR Ya.A. Rakhimovym. (PHRENIC MERVE) (DOGS)

Extracardiac nervous system in rabbits. Dokl.AN Tadzh.SSR no.17: 65-75 *56. (MLRA 9:11)

Kafedra normal'noy anatomii Stalinabadskogo meditsinskogo instituta imeni Avitsenny.
 (Hervous system--Mammals) (Rabbits)

Cardiac nerves in guinea pigs. Dokl.AN Tadzh.SSR no.17:77-85 (MLRA 9:11)

1. Kafedra normal'noy anatomii Stalinabadskogo meditsinskogo instituta imeni Avitsenny. (Nerves, Cardiac) (Guinea pigs)

Cardiac nerves in man. Dokl.AN Tadzh.SSR no.17:87-94 '56. (MLRA 9:11)

 Kafedra normal'noy anatomii Stalinabadskogo meditsinskogo instituta imeni Avitsenny. (NERVES, CARDIAC)

Regions of distribution of the vagus nerves in the heart of the dog. Dokl. AN Tadsh. SSR no.18:87-93 \$56. (MLRA 10:4)

1. Kafedra normal'noy anatomii Stalinabadskogo meditsinskogo instituta im. Abuali-ibn-Sino. Predstavleno chlenom-korrespondentom AN Tadshikskoy SSR Ya.A. Rakhimovym.

(HEART--INNERVATION) (VAGUS NERVE)

FREZ, B.M.

Regions of the distribution of fibers of the right and left sympathetic caudal jugular ganglia in the heart of the dog.

Dokl. AN Tadzh. SSR no.18:95-105 *56. (MLRA 10:4)

1. Kafedra normal'noy anatomii Stalinabadekogo meditsinskogo instituta im. Abuali-ibn-Sino. Predstavleno chlenom-korresponientom AN Tadzhikskoy SSR Ya.A. Rakhimovym.

(HEART--INNERVATION)

EREZ. B.M.; KRASNOSHTEYN, S.R.

Human diaphragmatic nerve and its role in the formation of the "intermediate" jugular plexus. Dokl. AN Tadzh. SSR no.18:107-115 '56. (MLRA 10:4)

1. Kafedra normal'noy anatomii Stalinabadskogo meditsinskogo instituta im. Abuali-ibn-Sino i Kafedra normal'noy anatomii Stavropol'skogo meditsinskogo instituta. Predstavleno chlenom-korrespondentom AN Tadshikskoy SSR Ya.A. Rakhimovym.

(DIAPHRAGM--INNERVATION) (NERVOUS SYSTEM, SYMPATHETIC)

S-3

EREZ, B.M.

USSR/Morphology of Man and Animals - (Normal and Pathologic).

The Nervous System.

Abs Jour : Ref Zhur - Biol., No 3, 1958, 12401

Author : Erez, B.M.

Title : The Comparative Anatomy of Cardiac Innervation.

Orig Pub : Tr. Stalinabadsk. med. in-ta, 1957, 24, 208 str. il

Abstract : No abstract.

Card 1/1

EREZ B.K.

Nervous system of the human and vertebrate heart. Trudy Stal. med.inst. 25:27-54 '57 (MIRA 11:8)

1. Iz kafedry normal'noy anatomii (zav. - chlen-korrespondent AN Tadzhikukoy SSR dots Ya. A. Rakhimov) Stalinabadskogo gosudarstvennogo meditsinskogo instituta im. Abuali ibn-Sino.
(HEART-INNERVATION)

USSR/Human and Animal Morphology (Normal and Fathological) Nervous System.

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 31211

Author : Erez B.II.
Inst : Not Given

Title : Concerning the Nervous System of Men and the Vertebrates

(Critical-Historical Review).

Orig Fub: Tr. Stelinagedsk. nod. in-tc, 1957, 25, 27-54

Abstract : No abstract

Cord : 1/1

USSR / Human and Animal Morphology, Normal and Pathological. S-2 Nervous System. Peripheral Nervous System.

Abs Jour : Réf Zhur - Biol., No 18,1958, No 83675

of fibers of the intraganglionic branches. Straight and cross connection of the large splanchnic nervi vagi and phragmal nerves with the ganglia of the solar plexus was revealed; more degenerated fibers were revealed in the nerves of the selfsame side. Thus, the egress of the afferent fibers from the peritornal cavity passes not only along the splanchnic nerves but also through the system of the nervus vagus and the diaphragmal nerve. -- D. D. Ivanov.

Card 2/2

24

USSR/Human and Animal Morphology (Normal and Pathological). Nervous System. Peripheral Nervous System.

S-2

Abs Jour: Ref Zhur-Biol., No 16, 1953, 74304

cervical ganglion in a cat is permanent and the medial cardiac nerve departs from it. In none of the examined cats was the collateral trunk of the neck detected, but in all cases thoracic collateral trunks were found, as well as thoracic cardiac nerves, departing from upper five thoracic ganglia. A depressor nerve and a "thick" cardiac nerve were detected in 40 preparations. -- D. D. Ivanov

Card : 2/2

USSR/Human and Animal Morphology (Normal and 1. 17) S-2
Pathological). Mervous System. Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., No 16, 1958, 74305

heart of a dog, accomplishing direct and cross innervation; furthermore, the right semilunar ganglion gives off a greater quantity of fibers to the sinus region, coronary sinus, right atrium, anterior surface of the cardiac ventricles, and a lesser quantity into the region of the left atrium, posterior surface of the ventricles; and the left - to the left atrium and posterior surface of the ventricles, and less to the region of the sinus, coronary sinus, anterior and posterior surface of the right atrium and anterior surface of the ventricle. The quantity of medulatice of the ventricle. The quantity of medulations

dard : 2/3

EREZ, B.M.

Cardiac innervation in the grass snake (Natrix natrix), the big-eyed races (Coluber), Levantine viper (Vipera lebetina) carpet viper (Echis carinatus), and desert monitor (Varamus griseus). Trudy Stal.med.inst. 25:171-181 '57 (MIRA 11:8)

1. Iz kafedry normal now anatomii (zav. - chlen-korrespondent AM

1. Iz kafedry normal'noy anatomii (zav. - chlen-korrespondent All Tadzhikskoy SSR, dots. Ya.A. Rakhimov) Stalinabadskogo gosudarstvennogo meditsinskogo instituta im. Abuali ibn-Sino. (HEART--IMMERVATION)

(NERVOUS SYSTEM-REPTILES)

USSR / Human and Animal Morphology (Normal and S-2 Pathological). The Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., No 10, 1958, 45551.

Abstract: Atrophied changes in nerve cells, located peripher-

ally and inside the trunk, also were revealed. The number of satellites around such cells in-

crease. -- T. N. Ulissova

Card 2/2

43

USSR / Pharmacology, Toxicology. Chemotherapeutic V Substances, Antibiotics.

Abs Jour: Ref Zhur-Biol., No 18, 1958, 85230.

Author : Erez, S. L.

Inst : Not given,

Title : The Treatment of Bacterial Dysentery with Antibi-

otics by the Cyclical Course Method.

Orig Pub: Vrachebn. delo, 1957, No 7, 705-708.

Abstract: In 167 patients with acute bacterial dysentery, combined treatment was carried out with antibiotics in two 5-day cycles, with intervals of 4 to 5 days. The first cycle was one of streptomycin in doses of 50,000 units and synthomycin in doses of 0.5 gm 4 times a day. The second cycle was the same dose of streptomycin with phthalazol in doses of one gm 4 times a day. Following 2 cycles,

Card 1/3

52

USSR / Pharmacology, Toxicology. Chemotherapeutic V Substances, Antibiotics.

Abs Jour: Ref Zhur-Biol., No 18, 1958, 85230.

Abstract: cycles of treatment, the stool failed to become normalized in 10.4% of the patients, the mucosa of the distal segment of the intestine failed to return to normal in 18.6%, and the coprocytogram had not become normal in 14.6% of the patients. Treatment of chronic dysentery, in 4.6% of patients, was accompanied by side effects (allergic rash, nausea, frequency of stool, etc.). Simultaneous treatment of disturbances of gastric secretion, and elimination of cholecystitis, trichomoniasis, and helminthiasis, increased the effectiveness of the treatment of dysentery with antibiotics by the cyclical course method. -- G. I. Arsen'yev.

Card 3/3

53

EREZ, S. L.

"Treatment of bacterial dysentery with antibiotics by the cycliccourse method."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

EREZ, S.L., dotsent; MEL'NIKOV, P.P., kand.meditsinskikh nauk

Clinical characteristics of infectious erythema. Vrach. delo no.8: 52-55 Ag '60. (MIRA 13:9)

l. Klinika infektsionnyykh bolezney Stalinskoy meditsinskogo instituta i klinicheskaya imeni Kalinina.
(ERYTHEMA)

EREZ, S.L., dotsent; KRYUKOVA, Z.V., kand.med.nauk

Atypical pneumonia caused by the ornithosis virus. Vrach. delo no.6: 88-90 Je '61. (MIRA 15:1)

1. Klinika infektsionnykh bolezney (zaveduyushchiy - dotsent S.L. Erez) Stalinskogo meditsinskogo instituta na baze Oblastnoy klinicheskoy bol'nitsy.

(PNEUMONIA) (OMNIGHOSIS)

EREZ, S.L.; RYKLINA, A.G.; BUNDAREV, A.S.

Clinical characteristics of nonspecific ulcerous colitis. Kaz. med. zhur. no.1:19-22 Ja-F '62. (MIRA 15:3)

l. Kafedra infektsionnykh bolezney (zav. - dotsent S.L. Erez) Donetskogo meditsinskogo instituta i oblastnaya bol'nitsa imeni M.I. Kalinina (glavnyy vrach - B.A. Shparenko). (COLITIS) (UICERS)

EREZ, V.P. (Moskva)

Effect of physical stress of different intensity on the hypophysis - adrenal cortex system in young and elderly persons. Probl. endok. 1 gorm. 9 no.3:68-72 My-Je 163. (MIRA 17:1)

1. Iz sektora sportivnoy meditsiny (zav. ~ prof. S.P. Letunov)
TSentral'nogo nauchno-issledovatel'skogo instituta fizicheskoy
kul'tury (dir. - prof. N.G. Ozolin).

EREZ, V.P.

Function of the adrenal system in aged subjects. Ukr. biokhim. zhur. 35 no.1:58-63 *63 (MIRA 17:5)

1. Central Research Institute of Physical Culture, Moscow.

NARZULLAYNY, B.N. ERJAN, P.G.

Studying the rupture of films in drawing a horisontal plate from a liquid. Dokl. AN Tadzh. SSR 3 no.1:35-41 160. (MIRA 13:12)

l. Tadshikskiy gosudarstvennyy universitet imeni Lenina. Predstavleno akademikom AN Tadshikskoy SSR S.U.Umarovym.
(Films (Chemistry))

ERFURT, I.B.

and the second of the second o Device for determining the incline of pipelines [Suggested by I.B. Erfurt]. Rats. i izobr. predl. v stroi. no.6:142-143 '58.
(Water pipes) (MIRA 11:10)

ERGARDT, N. N.

ERGARDT, N. N.: "Methods of increasing the precision of measuring temperatures between 300 and 1600 degrees Centigrade by means of thermocouples made of noble metals." Commission on Standards, Measures, and Measuring Instruments, Council of Ministers USSR. All-Union Sci Res Inst of Metrology imeni D. I. Mendeleyev. Leningrad, 1956. (Dissertation for the Degree of Candidate in Technical Sciences)

Knizhnaya letopis', No 39, 1956, Moscow.

ERGADT, N.N.

Investigation of platinorhodium-platinum thermecouples made of high-purity materials. Izm.tekh.no.2:20-23 Mr-Ap 156. (MRA 9:7) (Thermocouples)

New method for calibrating thermocouples. Izm. tekh. no.6:58-60
N-D 57.

(Themocouples) (Calibration)

ERGARDT, N. N.

AUTHOR: TITLE:

32-6-28/54 GORDOV, A.N., EFGARDT, N.N. On the Accuracy of Measuring the Temperature of Liquid Steel by

Means of Various Types of Thermocouples. (O tochnosti izmereniya temperatury zhidkoy stali termoparami pogruzheniya razlichnykh

tipov, Russian)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol 23, Nr 6, pp 727-730 (U.S.S.R.)

ABSTRACT:

In this paper it is said that for measuring the temperature of liquid steel no possibilities have hitherto been available. No concrete data are to be found in Soviet scientific publications. Therefore the Ministry for "Black Metallurgy" (cast iron etc.) called a meeting without, however, achieving any success. The problem is therefore investigated by this paper. Two types of thermocouples have hitherto mainly been used in Soviet metallurgical plants for the measuring of the temperature of liquid steel: A platinorhodium-platinum thermocouple (PP) and the tungsten-molybdenum thermocouple (TM). It is pointed out that both have the disadvantages which are mainly due to thermoelectric difference (caused by temperature) between the immerged (working) and the not immerged (free) parts of the thermocouples; as the extent to which these parts are immerged is difficult to control, unequal results are usually obtained even if circumstances remain equal. Results in the case of the TM thermocouple may differ up to an amount of ± 16- ± 20°. A further disadvantage

Card 1/2

On the Accuracy of Measuring the Temperature of Liquid Steel by Means of Various Types of Thermocouples.

is to be found with the PP thermocouple, in that platinum is fouled at temperatures above 1100° by the tendency to absorb vapors. A new thermocouple (PPS) of spectrally pure platimum, the positive thermoelectrode of which contains 10% rhodium, was found to have greater stability at high temperatures. For the time being the application of these thermocouples is prevented by the fact that, at first, all officially graduated tables in the USSR would have to be changed. Since 1956 research work has been carried out jointly by the Ministry for Apparatus Construction and various scientific institutes in order to find the most stable thermocouples. Among new suggestions already made there is that concerning the use of the thermocouple PR30/6 (in which the positive electrode consists of 70% platinum and 30% rhodium and the negative electrode of 94% platinum and 6% rhodium) and the thermocouple PR30/13 which has the same positive and negative electrode of 87% platinum and 13% rhodium. Both showed comparatively good stability at temperatures of from 1500-18000. (1 Illustration, 7 References). ALLUNION Scientific Research Institute for Metrology

ASSOCIATION: PRESENTED BY: SUBMITTED: AVAILABLE: Card 2/2

Library of Congress

-	24(0); 5(4); 6(2) PHASE I BOOK EXPLOITATION SOV/2215 Vacaoyumyy nauchno-issledovatel'skiy institut metrologii imeni D.i. Mendelavava
	Referaty nauchno-isaledovatel'skizh rabot; abornik Mo. 2 (Scientifle Research Abstracts; Collection of Articles, Nr 2) Moacow, Standarteis, 1956. 139 p. 1,000 conses printed
	Additional Sponsoring Agency: U3SR, Komitet standartov, mer 1 imeritel hykh priborov.
	Ed.: S. V. Reshetina; Tech, Ed.: M. A. Kondratiyeva.
	FURPOES: These reports are intended for scientists, researchers, and engineers negged in developing standards, measures, and gages for the various industries.
	COVERAGE: The volume contains 128 reports on standards of measurament and control. The reports were prepared by scientists of institutes of the Komitet standartor, mer i immeries' invitable of the Komitet standartor, mer i immeries' invitable by Measuring Instruments under the USER Council of Wessoyumry maunited standards in the participating institutes are: VEXIM - Residence last waterload; is not in invitable in invitable in its index least to include a set of Metric in Invitable in its index least in institute of Metric index least in its index least in its index least in the interventions of Metric in Metric in Westown various transfer in the index index in the index
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 ,	Oordov, A.N., I.I. Kirenkov, and E.A. Lapina (VMIM). Construct- ing a Set of Standard Tungsten Pyrometer Lamps Calibrated for Color Temperature 80
	_
	Mandyba, V.Y., V.A. Kovalevskiy, V.Ye. Finkel'shteyn, and O.L. Jazalland (KholMEP). Designing and Sudying an SEK-1 Objective Spectrometer for the Calibration of Tungsten Pyrometer Lumps 32
	, e
· · · ·	Sungurov, V.I., and T.V. Lapshina (Swerdlovsk Branch of WRIM). Investigation of Soviet Tungsten Pyrometer Lamps
	Card 17/27

8(4)

307/32-24-12-19/45

AUTHORS:

Gordov, A. N., Ergardt, N. N.

TITLE:

Concerning Several Sources of Error in Measuring Temperature With Thermoelements (O nekotorykh istochnikakh oshibok izmereni-

ya temperatur s pomoshchiyu termopar)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 12, pp 1467-1470

(USSR)

ABSTRACT:

Errors in measurement were studied which arise through the heterogeneity of the thermoelectrodes or because of undesirable conditions for heat exchange between the thermoelements and the body under investigation. There are two kinds of electrode heterogeneities which can be studied: a local heterogeneity caused by the presence of impurities and by cold hardening; and a continuous heterogeneity which is caused by the effects configh temperatures and by a change in chemical composition, the presence of impurities, and an unhomogeneous recrystallization. These two types are further explained by the use of diagrams (Figs 1,2). Using experimental material published by I. P. Zubkov (Ref 1) the author found error in the measuring method which utilizes thermoelements, since the proper depth of im-

Card 1/2

504/32-24-12-19/45

Concerning Several Sources of Error in Measuring Temperature With Thermoelements

mersion of the thermoelements was not determined and the parasitis thermc-electric motor power was thus not taken into consideration. It is noted with regret that the laboratoriya Kamenets-Ural skogo zavoda (Laboratory of the Kamenets-Ural Plant), which is the main producer of chromel and alumel electrodes, has been using an incorrect method of testing. In the proper testing method a very small immersion depth and induction heating (Refs 3,4) are used. In measuring the temperaturs of solid bodies the situation is even more difficult, since as large a contact surface as possible must be maintained between the thermoelement and the body being measured. As an example of a case where the effect of heat exchange was not taken into consideration the work of V. S. Mikheyev (Ref 5) is cited. There are 2 figures and 5 Soviet references.

Vsesbyuznyy nauchno-issledovateliskiy institut metrologii im. D. I. Mendeleyeva (All-Union Scientific Research Institute for ASSOCIATION:

Metrology imeni D. I. Mendeleyer)

Card 2/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041221

9,2200/9,2400

82465 S/112/60/000/006/011/032

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1960, No. 6, p. 247, # 4.4793

AUTHOR:

Ergardt, N. N.

/

TITLE:

Some Data on the Stability of Platinrhodium-Platinum Thermocouples

PERIODICAL: Tr. Vses. n.-1. in-ta metrol., 1958, No. 35(95), pp. 87-91

TEXT: Platinrhodium-platinum thermocouples provide an ultimate error of the order of $\pm 1 - \pm 2$ C within the range of 300-1,100°C and $\pm 10 - \pm 12$ °C within the range of 1,100-1,600°C. Practice shows that a nonuniformity of electrodes arises during the operation, resulting from effects of high temperatures, environment and impurities. This nonuniformity causes changes in the thermoenvironment and impurities of the thermocouples and magnifies the measurement electric characteristics of the thermocouples and magnifies the measurement error. At the Laboratoriya vysokikh temperatur VNIIM (Laboratory of High Temperatures of VNIIM) 51 Class I reference thermocouples were manufactured and calibrated. After they had been in operation for periods of 1 to 3 years, it was found that the calibrating characteristics had changed by 6 microvolts at the solidification point of copper (1,083.1°C). This change remains within

Card 1/2

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Some Data on the Stability of Platinrhodium-Platinum Thermocouples

the limits of the standard. Thus, as a rule platinrhodium-platinum thermocouples can serve as Class I reference thermocouples within a temperature range of 300-1,100°C for a period of three years.

A. A. B.

Card 2/2

SOV/58-59-9-20020

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 9, p 84 (USSR)

AUTHOR:

Gordov, A.N , Krakhmal'nikova, G.A , Ergardt, N.N.

TITLE:

A Horizontal Furnace for Obtaining Temperatures up to 1,500°C in an Air

Combustion-Chamber

PERIODICAL:

Tr. Vses. n.-1. in-ta metrol., 1958, Nr 35(95) pp 92 - 94

ABSTRACT:

The furnace can serve for the calibration of operating Pt-PtRh thermocouples up to $1,500^{\circ}\text{C}$. Fundamentally, it consists of two coaxial tubes. The inner tube (of Al_2O_3) serves as the combustion chamber, while the outer tube (of BeO^2) carries the heating winding (of Mo wire with a cross section of 0.2 mm), operating in an atmosphere of refined Ar, supplied under a pressure of 0.02 atm. The power of the heater is 5 kw, and the voltage of the alternating current is 220 V. The furnace provides heating up to 1,500°C for two hours. Temperature fluctuations in the center of the furnace do not exceed $\frac{1}{2}$ 4°C over a distance of 7 cm.

B.I. Pilipchuk

Card 1/1

PHASE I BOOK EXPLOITATION

SOV/4940

- Gordov, A. N., I. I. Kirenkov, E. A. Lapina, and N. N. Ergardt
- Metody izmereniya vysokikh temperatur (High Temperature Measuring Methods) Moscow, Standartgiz, 1960. 52 p. 3,000 copies printed. (Series: Vsesoyuznyy nauchno-issledovatel'skiy institut komiteta standartov, mer i izmeritel'nykh priborov. Seriya obzornykh monografiy po izmeritel'noy tekhnike, vyp. 12)
- E.: V. I. Startsev; Ed. of Publishing House: M. I. Kuznetsova; Tech. Ed.: A. Ye. Matveyeva.
- PURPOSE: This book is intended for technical personnel concerned with the application of modern pyrometric techniques.
- COVERAGE: The book describes the methods and equipment of both radiation and optical pyrometry; a special chapter is devoted to color pyrometry. Visual and photoelectric methods of measuring high temperatures by means of pyrometers, as well as methods of checking all types of pyrometers, are investigated. Description is

Card-1/4

High Temperature Measuring Methods

SOV/4940

given of various thermocouples, their calibration and checking, and of the determination of the nonuniformity of thermocouple electrodes. The problem of using thermocouples for measuring temperatures up to 1800°C is examined. The book has been compiled by the staff members of the Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni D. I. Mendeleyeva (VNIIM) (All-Union Scientific Research Institute of Metrology imeni D. I. Mendeleyev), A. N. Gordov wrote Ch. I, E. A. Lapina - Ch. II, I. I. Kirenkov - Ch. III, and N. N. Ergardt - Ch. IV. There are 127 references, 55 Soviet (including 3 translations), 55 English, 10 German, and 7 French.

TABLE OF CONTENTS:

INDEE OF CONTENTS.	
Ch. I. Radiation Pyrometry	3
Ch. II. Optical Pyrometry Visual optical pyrometers Photoelectric pyrometers	11 12 16
Photographic methods of measuring brightness-temperature Means and methods of checking	21 20

Card 2/4

ERIGARDT, N. N.

S/263/62/000/003/006/015 1004/1204

94:500

Adakhovskiy, A. P., Gordov, A. N., Lapp, G. B., Lebedeva, Z. S., Maksimova, V. L.

Omelchenko, G. F., Prokopyev, P. N. and Erhardt, N. N.

TITLE:

AUTHOR:

Investigation of new types of thermocouples for measurement of temperatures up to 1800°C

PERIODICAL:

Referativnyy zhurnal, otdel'nyy vypusk. Izmeritel'naya tekhnika, no. 3, 1962, 38, abstract 32,3.229. "Tr. in-tov Kom-ta standartov, mer i izmerit. priborov, pri Sov. Min. SSSR",

· 1960, no. 42 (102), 29-38

TEXT: The authors studied thermocouples, both electrodes of which were made of platinum-rhodium alloys of varying composition. Sverdlov sovnarkhoz (district economic council) produced platinum-rhodium wires with different rhodium contents, 0.3, 0.5, 0.8 and 1.0 mm in diameter and studied their thermoelectric uniformity. The latter was determined on a semi-automatic industrial set-up consisting of an oven for heating the junction of the investigated wire with a comparison electrode, a rewinding unit and a laboratory potentiometer. The degree of uniformity of the thermoelectric material was determined by the value of the thermoelectric emf created at the junction of the investigated wire with a comparison electrode. The comparison electrode was formed by a piece of wire cut from an end of the investigated bundle. The oven of the set-up was built

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Card 1/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000

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Investigation of new types of ...

S/263/62/000/003/006/015 1004/1204

of porcelain tube 15 mm diameter and 90 mm long, a platinum heater, thermal insulation, an outer mantle and a stand. The temperature inside the cavity of the oven was determined by means of a Pt. Rh thermocouple. The Sverdlov branch of BHHHM (VNHM) collected and analyzed the data in order to establish deviation limits from the average calibration for the thermoelectric emf of the couples. VNHM developed a method of calibration of thermocouples, studied their calibration characteristics and analyzed the variation of these properties for thermocouples stemming from different melts. The influence of the contact between the thermoelectrodes and the supporting ceramic of different composition under high temperature conditions and the stability of the thermocouples under various operating conditions were studied. As a result of these comprehensive studies it is concluded that the thermocouples of the HP 30/6 (PR 30/6) type are the most accurate for measurement of temperatures of molten metals and of temperatures above 1400 C for several hundred hours. For operation under actual working conditions the fixtures and the protective caps should be made of aluminum oxide with titanium oxide added. There are 5 figures, 4 tables and 6 references.

[Abstracter's note: Complete translation.]

Card 2/2

28 (5) AUTHORS:

Gordov, A, N., Ergardt, N. N.

S/032/60/026/01/049/052

TITLE:

On Testing Methods for Thermoelectrodes and Thermocouples (On the Occasion of the Paper by A. N. Gordov and N. N. Ergardt Published in the Periodical "Zavodskaya laboratoriya", 1958,

Vol 24, Nr 12)

III

PERIODICAL:

Zavodskaya laboratoriya, 1960, Vol 26, Nr 1, p 122 (USSR)

ABSTRACT:

In reply to the paper by A. G. Nuzhnov, G. N. Pokrovskaya, and I. L. Rogel'berg (ibid p 122), the authors point out that the method described by Nuzhnov et al. and used at the Kamensk-Ural'skiy zavod po obrabotke tsvetnykh metallov (Kamensk-Ural'skiy Factory for the Working of Nonferrous Metals) is sufficient for examinations of thermocouples, but insufficient for thermoelectrodes. On longer working duration, considerable thermoelectric heterogeneity appears along the thermocouples, as can be seen in practice. Frequently, such thermocouples are used at various depths of immersion into the furnace, and thus, considerable errors in measurement occur. Since the above factory produces thermoelectrode wire from nonprecious metals on a large scale, quality control at stationary immersion depth of the

Card 1/2

On Testing Methods for Thermoelectrodes and Thermo- S/032/60/026/01/049/052 couples "On the Occasion of the Paper by A.N. Gordov B010/B001 and N. N. Ergardt Published in the Periodical "Zavodskaya laboratoriya", 1958, Vol 24, Nr 12). III

thermocouples is considered unsatisfactory because a change of the composition and structure of the thermoelectrodes cannot be determined by this method. The thermoelectric force of the thermocouples (produced from thermoelectrodes) has to be measured at a considerably lower depth of immersion (than is the case under working conditions) to permit the observation of a change in these thermoelectrodes.

Card 2/2

EXEMPLET N. N.

S/115 /61/000/001/003/007 B129/B201

AUTHORS:

Gordov, A. H., Izrailov, K. S., Kandyba, V. V., Kirenkov I. I., Kovalevskiy, V. A., Lapina, E. A., Finkel 'shteyn V. Ye., and Ergardt, N. N.

TITLE:

Comprehensive metrological studies for developing methods and

apparatus for exact measurements of high temperatures

Izmeritel'naya tekhnika, no. 1, 1961, 22-25 PERIODICAL:

The ever-increasing demands made by industry on the accuracy and range of measurements of high temperatures make it necessary to reorganize TEXT: the entire m etrological system in the field of measurements of high temperatures and the development of new standard and model devices on the basis of the latest achievements in the construction of precision instruments. In this connection, the VNIIM imeni D. I. Mendeleyeva and KHGIMIP developed a program for the performance of comprehensive metrological studies for the establishment of new standards and high-precision master instruments for temperatures of up to 10,000°C. This metrological research work was completed in 1960. The studies were made in four fundamental directions: thermometry

Card 1/2

S/115/61/000/001/003/007 B129/B201

Comprehensive metrological ...

of gases, thermoelectric pyrometry, optical visual pyrometry, objective pyrometry (photoelectric and radiation pyrometry). New temperature scales in the field of high temperatures were established on the basis of new methods of objective spectropyrometry. The optical pyrometers used for measuring high temperatures are not sufficiently accurate. Thus, the admissible error in measurement of the optical pyrometersOffilf(OfFIR) is up to ± 15°C at 1,000°C, and up to 30°C at 2,000°C. It is evident that this is insufficient for many purposes and for scientific research work. In connection with the above problem, i.e., direct temperature measurement of high accuracy, the optical precision pyrometers 307 -51 (EOP-51) and 07 -48 (OP-48) spectropyrometers of the types MKN-57 (IKP-57) and CNK(Spk), and new optical were developed and introduced. The internadevices of the type YPM (URP) tional temperature scale was used with maximum accuracy for the new instruments at the Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. O. I. Mendeleyeva (All Union Scientific Research Institute of Metrology imeni D. I. Mendeleyev) and at the institutes of the Komitet standartov, mer i izmeritel'nykh priborov (Committee on Standards, "casures, and Measuring Instruments). The new pyrometers are widely used for scientific research work. There are 59 references: 49 Soviet-blac and 6 non-Soviet-Card 2 /2

5/058/62/000/005/002/119 A160/A101

AUTHOR:

Ergardt, N. N.

TITLE:

A method of determining the parasitic thermo-emf of the hetero-

geneity of thermocouples

PERIODICAL: Referative zhurnal. Fizika, no. 5, 1962, 12, abstract 5A130 ("Tr. In-Boy Kom-ta standartov, mer i izmerit, priborov pri Sov.

Min. 835.27, 1961, no. 51 (III), 89-97)

A short description and analysis is given of the methods used for TEXT: determining the pursuite thermo-emf of the heterogeneity of a thermoelectrode wire for thermony wiss. A theoretical calculation of the distribution of temperature and its granuents in a test furnace is presented. A method is given for determining the amountaile of the parasitic thermo-emf in a working furnace on the basis of the results of a test carried out with the given wire in a point furnace.

[Abstracter's note: Complete translation]

Card 1/1

ERGARDT, N. N.

Reproduction and transmission of temperature scale in the range of 300 to 1,063°C. by means of thermocouples. Trudy inst. Kom. stand., mer i imm. prib. no.51:73-81 '61. (MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D. I. Mendeleyeva.

(Thermometry) (Thermocouples)

ERGARDT, N. N.

Method for determining the parasitic thermoelectromotive force of the nonuniformity of thermocouples. Trudy inst. Kom. stand., mer i izm. prib. no.51:89-97 '61. (MIRA 16:1)

1. Vsesoyuznyy naudhno-issledovatel'skiy institut metrologii im. D. I. Mendeleyeva.

(Thermocouples-Testing)

ERGARDT, N.N.

Constant melting point of copper. Trudy inst.Kom.stand.mer i izm. prib. no.71:94-96 '63. (MIRA 17:9)

1. Vsesoyuznyy nauchno-isaledovatel'skiy institut metrologii im. D.I. Mendeleyeva.

KAMOCHKINA, Ye.M.; ERGARDT, N.M.

Melting point of palladium. Trudy inst.Kom.stand.mer 1 izm.pr.b. no.71:237-241 163. (MIRA 17.9)

1. Vsesoyuznyy nauchno-issledovateliskiy institut metrologii im. D.I. Mendeleyeva.

KAMOCHKIHA, Ye.M.; ERGARDT, H.N.

Apparatus for calibrating thermocouples and studying thermoelectrode materials. Nov. nauch.-issl. rab. po metr. VNIIM no.3:17-20 *64 (MIRA 18:2)

NOVITAKIY, L.A. FRGARDT, N.N.

New instruments for thermophysical research. Teplofiz. vys. temp. 3 no.3:463-466 My-Je 165. (MERA 18:8)

7062-66 FWT(d)/EWT(m)/EWP(v)/EWP(t)/EWP(h)/EWP(b)/EWP(b)/EWP(l) IJP(c)
ACC NR: AP5025982 JD/JG SOURCE CODE: UR/0294/65/003/005/0691/0694

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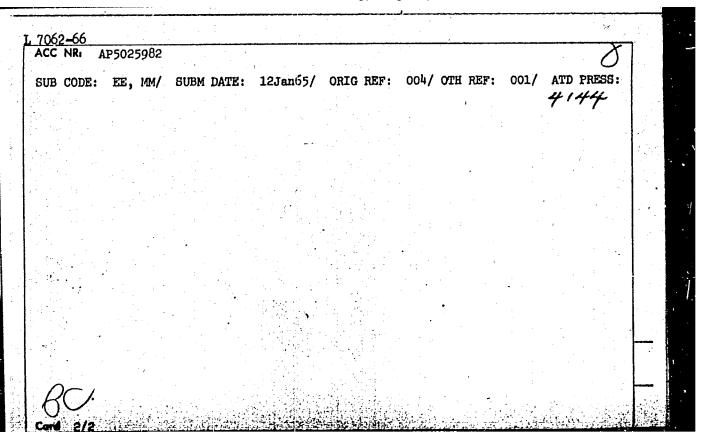
TITLE: Some thermoelectric characteristics of platinum-rhodium alloys

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 5, 1965, 691-694

TOPIC TAGS: alloy, platinum alloy, rhodium containing alloy, thermal emf, alloy thermal emf, platinum alloy thermocouple

ABSTRACT: The method and the results of an experimental determination of the thermoelectric properties of platinum-rhodium alloys are described. The investigated Pt-Rd
alloys contained 1, 6, 10, 13, 20, 30, and 40% Rd. The thermal emf of the alloys
relative to platinum was measured at 100, 500, and 900C, using seven types of thermocouples whose positive arms were made from Pt-Rd wires and the negative arms from
platinum wires. The resistivity of Pt-Rh alloys was measured at temperatures ranging
from zero to 1200C. On the basis of the obtained data, formulas were derived for
approximate calculation of the expected thermal emf of thermocouples hade from
platinum and platinum-rhodium wires containing from 1 to 40% Rh at temperatures up
to 800C. The calculated values of the thermal emf for thermocouples at 800C were
found to be correct to within 2—4% of the measured values of thermal emf. Orig. art.
formulas: 3 figures, 4 tables, and 2 formulas.

[MS]



L 14938-66 EWT(d)/EWT(1)/EWP(v)/EWP(h)/EWP(l)
ACC NR: AP5016701 SOURCE CODE: UR/0294/65/003/003/0463/0466

AUTHOR: Novitskiy, L. A.; Ergardt, N. N.

ORG: none

21,44155

TITLE: New devices for thermophysical analysis

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 3, 1965, 463-466

TOPIC TAGS: heat conductivity, temperature control, thermocouple, pyrometer, temperature regulation, temperature measurement

ABSTRACT: The authors list the following newly developed devices (giving a brief description and citing the source of information in each case): 1) Apparatus for determining the coefficient of heat conductivity of heated solids, based on stationary heat flow through a plate (Avtorskoye svidetel'stvo No. 163393). 2) Device for measuring the coefficient of heat conductivity by the cylindrical shell method. (Ogneupory, No. 5, 1964, p. 227). 3) Experimental stand for investigation of non-stationary heat exchange at a solid-nonsolid interface (IVUZ. Priborostroyeniye, v. 7, No. 6, 1964, p. 84). 4) Device for measuring heat Conductivity of fluids in the 0.07-0.6 kcal range (Pribory i tekhnika eksperimenta, No. 6, 155, 1964). 5) De-

Card 1/3

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vice for regulating temperatures up to 400°C by means of photodiode tube. Can be used for temperature control in soldering, etc. (Radio, No. 12, 42, 1964). 6) Thermoprobe with contact thermocouple. Measures temperatures in the 160-520°C range within 0.7-1.1 sec. (Izmeritel'naya tekhnika, no. 11, 37, 1964). 7) Automatic programmed temperature control system. Has temperature fluctuation of 0.7% (Ogneupory, no. 13, 117, 1964). 8) Supersensitive heat regulator. Temperature held at 300°C : ± 0.025°. (Priborostroyeniye, No. 6, 14, 1964). 9) Device for measuring surface temperatures in the 25-120°C range. (Priborostroyeniye, no. 17, 25, 1964). 10) Thermocouple device for contactless determination of temperatures of solids. Used for temperature control of metals up to 1300°C. (Stal', no. 8, 751, 1964). 11) Automatic color pyrometers: a) "Tsvetopir 1" which has a sensitivity of $\sim 2^{\circ}$ and an error of 0.3%; b) two models of "Tsvetopir 2"--an industrial model with a temperature range of 1300-2800°C and a subrange of 300-400°C; a research model with a temperature range of 1400-2800°C with four subranges. (Pribory i sredstva avtomatizatsii, no. 9, 29, 1964). 12) High temperature heating system for the UEMV-100 electron microscope. (Zavodskaya laboratoriya, no. 12, 1513, 1964). 13) Krypton light source. (Avtorskoye svidetel'stvo No. 160769). 14) Craphite source of infrared radiation in the 2-20 mu range. (Pribory i tekhnika eksperimenta, no. 4, 188, 1964). 15) Apparatus for automatic recording of dimensional changes of heated components.

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(Ogneupory, no. 4, 167, 1964). 16) System for the continuous measurement of weight losses in evaporating solids. (Zavodskaya laboratoriya, no. 12, 1518, 1964).

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