"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

ACCESSION NR: AP4029004

occurrence of diffusion processes which lead to the formation of "clouds" around the dislocation. The purpose of this paper is to investigate the mentioned anomaly in the change of elastic properties and their anisotropy, on a number of pure metals and alloys with a face centered cube lattice, as well as the study of the physical properties and structural changes in order to expose the nature of this interesting phenomenon. The method and materials used, as well as the experimental instruments, are described in detail. The results are given in figures and tables. In conclusion, the authors claim that in the case of pure metals and alloys, hardness and resistance toward small plastic deformations increases in process of pre-recrystallization annealing, when its anisotropy drops. This effect is more apparent in alloys. Orig. art. has: 6 figures and 1 table.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys)

SUBMITTED: 11Mar63 DATE ACQ: 27Apr64 ENCL: 00

SUB CODE: ML NO REF SOV: 007 OTHER: 004

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

L 57726-65 EWP(e)/EWT(m)/EWP(k)/EWP(t)/EWP(z)/EWP(b) Pf-4 JD

ACCESSION NR: AR5015171 UR/0137/65/000/005/G039/G039

SOURCE: Ref. zh. Metallurgiya, Abs. 5G230

24
B

AUTHOR: Pavlovskaya, Ye. I.; Goryacheva, Z. V.; Raksin, Ya. N.

TITLE: New methods of forming filter elements

CITED SOURCE: Tr. 7 Vses. nauchno-tekhn. konferentsii po poroshk. metallurgii. Yerevan, 1964, 172-177

TOPIC TAGS: filter material, powder metal, powder metal pressing, vibration

TRANSLATION: An investigation has been made of the possibility of using various pressing methods for manufacturing filter elements out of powders with a spherical particle shape. Use of such powders assures a high filter element capacity while preserving a high degree of cleaning; however, these powders have low pressability. Static pressing or static pressing in conjunction with vibration charging of the burden into the press form assures obtaining a uniform density at a briquet height up to 100-120 mm. A specially developed hydrostatic pressing apparatus with provision for vibration feeding at a vibration frequency of 3000 vibrations per minute was used to make filter elements in the form of a

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L 57726-65

ACCESSION NR: AR5015171

tube with a length up to 1 m. This type of filter element was obtained by extrusion pressing. An 0.5% solution of starch paste was used as a filler. The mixture was previously pressed down, and the pressing was done at a speed of 5-10 m/sec. Filter elements made by different methods differ in fineness of filtration and in capacity. V. Kvin.

SUB CODE: MM ENCL: 00

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

DOLINA, V.I., inzh.; RAKSTYN'SH, I.E.; CHISTIKOV, A.P., inzh.

Composite oscillograph with twelve vibrators based on a portable three-vibrator oscillograph. Trudy VNIIE no.8:264-272 '59. (MIRA 13:9)

(Oscillograph)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

Rabowski, V. S. *Die Grundlagen der Herst. von harten Legierungen. Teil I. Einführung in die Theorie der Prozesse.* [In Russian.] Pp. 90. 1935. Moscow and Leningrad: ONTI, Glav. red. lit-ry po zvetnye metallurgii. (Rbl. 1.25.)

METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

BEL'FOR, O., inzh.; RAKU, T., inzh.

Automation of the loading of hoppers of concrete mixing units.
Bud.mat.i konstr. no.5:17-22 S-O '62. (MIRA 15:11)
(Automatic control) (Concrete mixers)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

CIZEK, Ilona, dr.; MARK, Bruno, dr.; RAKULJIC, Ivan, dr.

Vena cava superior sinistra persistens. Lijecn. vjesn. 85 no.1:37-42 '63.

1. Iz Zavoda za rendgenologiju i Internog odjela Opce bolnice "Dra Ozrena Novosela" u Zagrebu.
(VENA CAVA, SUPERIOR)
(CARDIOVASCULAR DEFECTS, CONGENITAL)

S

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

STULHOFER, Mladen, dr.; HERGEG, Zlatko, dr.; SLIJEPCEVIC, Sinisa, dr.; MARKOVIC, Dusan, dr.; BLAGOVIC, Stjepan, dr.; RAKULJIC, Ivan, dr.; SPOLJAR, Ivan

A battery-operated cardiac stimulator of domestic production and its use in open heart surgery. Lijecn. vjesn. 85 no.7: 721-727 '63.

1. Iz Kirurskog odjela Opce bolnice "Dra O. Novosela", Instituta "Ruder Boskovic" i Kirurske klinike Veterinarskog fakulteta u Zagrebu.
(HEART SURGERY) (ELECTROTHERAPY)
(EQUIPMENT AND SUPPLIES)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKULJIC, Ivan, dr.; KATUNARIC, Dusko, dr.

Alkaptonuria. Lijec. vjes. 81 no.11:839-846 '59.

1. Iz Internog odjela Opce bolnice "dra O. Novosela" i iz Zavoda za rentgenologiju Opce bolnice "dra. M. Stojanovica" U Zagrebu.
(ALKAPTONURIA case reports)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUS, Milos, prom.ovary geolog

Distribution of the Toarcian lithogacies in the central zone of West Carpathians. Geol. sbor. 14 no.1:19-27 '63.

1. Dionyz Stur Institute of Geology, Bratislava, Mlynska dolina 1.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

C-3

Country : Hungary
Category : Organic Chemistry. Natural Compounds and their Synthetic Analogues. 19623
Abs. Jour. : Ref. Zhur.-Khimiya No. 6, 1959

Author : Zemplen, G.; Farkas, L.; Rakusa, R.
Institut. : Hungarian Academy of Sciences
Title : Structure and New Synthesis of Scutellarein.

Orig Pub. : Acta chim. Acad. scient. hung., 1958, 16, No 4, 445-449

Abstract : Bromination of 1.45 g of 6,4'-diacetoxy-5,7-dimethoxy-flavanone in $CHCl_3$ under irradiation with ultraviolet light, gives its 3-bromo-derivative, yield 0.4 g, MP 164-165° (from alcohol); 0.5 g of the latter heated for 5 minutes with 1.5 ml 30% solution NaOH + 15 ml alcohol, and isolated 0.25 g 6,4'-dihydroxy-5,7-dimethoxy-flavone (I), MP 283° (from alcohol). Diacetate of I, MP 200° (from CH_3OH). Saponification of I by boiling with HBr in glacial CH_3COOH (2 hours) and subsequent acetylation give 5,6,7,4'-tetracetoxy-flavone (II); MP 238° (from CH_3OH), which on heating (for 3 minutes) with 3% solution of NaOH + alcohol, is converted to 5,6,7,4'-tetrahydroxyflavone - scutellarein (II), aglycone

Card: 1/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

COUNTRY : Hungary
CATEGORY : Organic Chemistry - Natural Compounds and Their Synthetic Analogues.

ABS. JOUR. : RZKhim., No. 17, 1959, No. [illegible]

AUTH. : [illegible]

TITLE : [illegible]

ORIG. PUB. : [illegible]

ABSTRACT : [illegible]

CARD: [illegible]

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSA, R.

Distr: 4E2c(j)

41. The structure and a new synthesis of isocarthamidin. G. Zemplén, L. Parkus, R. Rakusa. *Magyar Kémiai Folyóirat.* Vol. 64, 1958, No. 3, pp. 92–94.

2,5-Dihydroxy-4,6-dimethoxy acetophenone was condensed in alkaline medium with *p*-hydroxy benzaldehyde to yield 4',6-dihydroxy-5,7-dimethoxy flavanone. Dimethylation of the latter yielded isocarthamidin, a dye of the safflower. This synthesis offered an unequivocal proof of the structure assumed by other researchs.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

KARNICKI, J.

Temperature variations in tropical shallow water pools (Brazil). Polskie arch hydrobiol 12 no.3:421-442 '64.

1.Department of Hydrobiology of the Warsaw University. Submitted October 17, 1963.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

BC

A-1

Volumetric determination of small amounts of arsenic. J. H. KÁRPELKA and B. RAKUŠAN (III Kongr. slovensk. Apt. Jugoslav., 1935, 186—198; Chem. Zentr., 1937, I, 2415).—0·0[illegible]—0·28 g. of As_2O_3 may be determined by leading the resulting AsH_3 into 0·1N-I, which is titrated back with 0·1N-$Na_2S_2O_3$ in slightly acid solution. A. J. E. W.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSAN, B.

DELEZEL, B.; RAKUSAN, B.; URBANEK, G.; VYSTRCIL, A.; ZICHA, K.; ZICHA, O.

Floristen as a drug in the treatment of inflammation. Cesk. farm. 3 no.7:247-248 Sept 54.

1. Z Vyzkumneho ustavu lecivych rostlin v Praze.
(PLANTS,
Hypericum perforatum extract, ther. of inflamm.)
(INFLAMMATION, therapy,
Hypericum perforatum extract)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSAN B.

DOLEZEL, B.; RAKUSAN, B.; URBANEK, O.; VYSTROIL, A.; ZICHA, K.; ZICHA, O.

Retisin, a new tissue preparation. Cask. farm. 3 no.7:246-247 Sept 54.

1. Z Vyzkumneho ustavu lecivych rostlin v Praze.
(TISSUE EXTRACTS,
retisin)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

PROCESSES AND PROPERTIES INDEX

Volumetric determination of minute amounts of arsenic.
J. H. Křepelka and B. Rakušan. *Časopis Československ. Lékarnictva* 14, 2[illegible] (1[illegible]). AsH_3 is formed by treatment with Zn and acid and absorbed in a measured vol. of I_2 soln. The excess I_2 is titrated with $Na_2S_2O_3$ (cf. H. Ili, 1[illegible]). V. D. Karpenko

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

1ST AND 2ND CODERS

3RD AND 4TH CODERS

PROCESSES AND PROPERTIES INDEX

Fowler's arsenical solution, Ph. A. VIII. B. Rakulan and J. Fanta. *Cesopis Ceskoslov. Lekarnictva* 13, 277-80(1923).—Discrepancies between the As^{III} content required in Fowler's soln. and the values found in recently prepd. solns. are not due to oxidation, which is very slow.

William J. Husa

COMMON ELEMENTS

MATERIALS INDEX

CODE

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

Fowler's arsenical solution, Ph. A. VIII. B. Rahulan and J. Fanta. *Časopis Českého Lékárnictva* 13, 277-[illegible] (1933).—Discrepancies between the As^{III} content required in Fowler's soln. and the values found in recently prepd. solns. are not due to oxidation, which is very slow.

William J. Hus

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

URBANEK, Gabriel; DOLEZAL, Bedrich; RAKUSAN, Bohumir; VYSTRCIL, Alois; ZICHA, Karel; ZICHA, Osval; klinicky spolupracovnik: Miroslav Kolda.

Treatment of endarteritis with tissue preparations RTN. Cas.lek. cesk. 91 no.45-46:1375-1377 14 Nov 52.

1. Z II. interni kliniky prof. dr. Ant. Vancury a Vyzkumneho ustavu lecivych rostlin v Praze.

(TISSUE THERAPY, in various diseases, endarteritis obliterans)
(ENDARTERITIS OBLITERANS, therapy, tissue ther.)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

URBANEK, Gabriel; DOLEZEL, Bedrich; RAKUSAN, Bohumir; VYSTRCIL, Alois; ZICHA, Karel; ZICHA, Osvald, Kolektiv RTN; LUNDOVA, Anna, MUDr, asistent I. gynekologicke kliniky prof. Dr. Klause

Tehrapy of chronic gynecological diseases with the tissue preparation Floristen mite (RTN 118) Cas. lek. cesk. 93 no.49:1352-1354 3 Dec 54.

1. Z vyzkumneho ustavu lecivych rostlin, z II. interni kliniky prof. Dr.Vancury a z I. gynekolgicke kliniky prof. Dr. Klause v Praze
(PLANTS, therapeutic use
Hypericum perforatum extract in inflammatory gynecol. dis.)
(GYNECOLOGICAL DISEASES, therapy
Hypericum perforatum extract)

KORECKY, B.; RAKUSAN, K.; POUPA, O.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013

The effect of anaemia due to iron deficience during early postnatal development of the rat on growth and body composition later in life. Physiol. Bohemoslov. 13 no.1:72-77 '64.

1. Institute of Pathological Physiology, Faculty of Paediatrics, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

POUPA, O.;KORECKY, B.; KROFTA, K.; RAKUSAN, K.; PROCHAZKA, J.

The effect of anaemia during the early postnatal period on vascularisation of the myocardium and its resistance to anoxia. Physiol. Bohemoslov. 13 no.3:281-287 '64

1. Institute of Physiology, Czechoslovak Academy of Sciences and Institute of Pathological Physiology, Faculty of Paediatrics, Prague.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

LISKOVA, I.; OSTADAL, B.; RAKUSAN, K.

A longitudinal study of skinfold thickness in human infants.
Physiol. bohemoslov. 12 no.3:248-250 '63.

1. Department of Pathological Physiology, Faculty of Paediatrics, Charles University, Prague.
(SKIN) (ADIPOSE TISSUE) (SEX) (STATISTICS)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSAN, K.; KORECKY, B.; ROTH, Z.; POSPA, O.

Development of the ventricular weight of the rat heart with special reference to the early phases of postnatal ontogenesis. Physiol. Bohemoslov. 12 no.6:518-525 '63.

1. Institute of Pathological Physiology, Faculty of Paediatrics, Charles University, Institute of Industrial Hygiene and Occupational Diseases, Department of Physiology and Pathophysiology of Metabolism, Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

(MYOCARDIUM) (GROWTH)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSAN, K.; POUPA, O.

Changes in the diffusion distance in the rat heart muscle during development. Physiol. bohemoslov. 12 no.3:220-227 '63.

1. Department of Pathological Physiology, Faculty of Paediatrics, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague.
(MYOCARDIUM) (CAPILLARIES)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

POSPA, G.; [illegible], K.; [illegible], R.; [illegible], J.; [illegible], J.

On some developmental and adaptive changes in the mammalian heart. Cesk. fysiol. 13 no.4:391-393 Jl '64.

1. Fysiologicky ustav Ceskoslovenske akademie ved, Ustav patologicke fysiologie fak. detsk. lek. Karlovy University, Praha.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSAN, Karel; KRIZ, Zdenek

The development of subcutaneous fat in preschool children. Cesk. pediat. 15 no.3:215-218 Mr '60.

1. Katedra farmakologie a patologicke fyziologie fakulty detskeho lekarstvi v Praze. Oddeleni patologicke fyziologie, vedouci oddeleni doc. dr. Zelenka.
(ADIPOSE TISSUE in infancy & childhood)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSAN, Karel, za technicke spoluprace WACHTLOVE, Mileny

On the relationship between the subcutaneous fat layer and weight in children. Cesk. pediat. 17 no.4:295-299 Ap '62.

1. Katedra farmakologie a patologicke fyziologie fakulty detskeho lekarstvi Karlovy university v Praze, oddeleni patologicke fyziologie, vedouci oddeleni prof. dr. Otakar Poupa.

(BODY WEIGHT in inf & child)
(ADIPOSE TISSUE in inf & child)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

PAŘÍZEK, K.; ŠEDL, J.; KŮRA, O.

The distribution and content of myoglobin in the heart of the rat during postnatal development. Physiol. Bohemoslov. 14 no.4 317-319 '65.

1. Institute of Pathological Physiology and Institute of Child Development, Paediatric Faculty, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague. Submitted October 27, 1964.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

BAUER, K.; [illegible], G.

The relationship between the capillaries and protein nitrogen in the myocardium of the rat during postnatal development. Physiol. Bohemoslov. 14 no.4:320-323 '65.

1. Institute of Pathological Physiology, Paediatric Faculty, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague. Submitted November 13, 1964.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

BAYBASHOVA, Z.I.; KROMTA, K.; PROCHAZKA, J.; PAKUSAN, K.; SKNIVANOVA, J.; POUPA, O.

The effect of adrenalectomy on adaptation to hypoxia in the rat. Changes in haemoglobin concentration and osmotic resistance of erythrocytes in peripheral blood. Physiol. Bohemoslov. 14 no.4: 324-327 '65.

1. Institute of Evolutionary Physiology and Biochemistry, Academy of Sciences, Leningrad and Institute of Physiology, Czechoslovak Academy of Sciences, Prague. Submitted December 16, 1964.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

[illegible], M.; [illegible], E.; [illegible], F.

The coronary terminal vascular bed in the heart of the [illegible] (Lepus europeus) and the rabbit (Oryctolagus [illegible]). Physiol. Bohemoslov. 14 no.4:328-331 '65.

1. Institute of Pathological Physiology, Faculty of Paediatrics, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague. Submitted December 28, 1964.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

L 2050-66

ACCESSION NR: AP5027368 CZ/0053/65/000/001/0033/0043

AUTHOR: Rakusan, K.

TITLE: Terminals of the capillary bed of the myocardium

SOURCE: Ceskoslovenska fysiologie, no. 1, 1965, 33-43

TOPIC TAGS: cardiology, cardiovascular system, human physiology

Abstract: The importance of capillaries in the supply of oxygen to the myocardium, and the history of investigations of this subject is presented. Structure of the capillaries, their permeability, the qualitative arrangement of the capillary bed, quantitative investigation of the terminals of the capillaries, and the methods of their diagnosis are discussed. Knowledge of the capillary bed of the myocardium is reviewed, its ontogenetic development, changes in pregnancy, changes in the enlargement of the heart, and during diseases of the thyroid are described. The theory of concentric supply of oxygen is evaluated. Orig. art. has 3 figures.

Card 1/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

L 2050-66

ACCESSION NR: AP5027368

ASSOCIATION: Ustav patologicke fysiologie Fak. detsk. lek., Prague (Institute of Pathological Physiology, Faculty of Pediatrics)

SUBMITTED: 09Jul64 ENCL: 00 SUB CODE: LS

NO REF SOV: 000 OTHER: 069 JPRS

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSAN, K.; JELINEK, J.; KORECKY, B.; SOUKUPOVA, M.; POUPA, O.

Postnatal development of muscle fibres and capillaries in the rat heart. Physiol. Bohemoslov. 14 no.1:32-37 '65

1. Institute of Pathological Physiology, Faculty of Paediatrics; Institute of Physiology, Czechoslovak Academy of Sciences and Institute of Biology, Faculty of General Medicine, Charles University, Prague.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

KORECKY, B.; PAKUSAN, K.; POUPA, O.

The weight and chemical composition of the heart of rats suffering from sideropenic anaemia in the early postnatal period. Physiol. Bohemosl. 13 no.5:439-445 '64.

1. Institute of Pathological Physiology, Faculty of Paediatrics, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSAN, Karel

Aritmetika pro sesty postupny rocnik vseobecne vzdelavacich skol. (Arithmetics for the 6th Grade of the Schools of General Education. 4th ed. illus., index) Authors: Karel Rakusan, Josef Kroupa, Anna Rakusanova. Prague, SPN, 1957. 195 p.

Bibliograficky katalog, CSR, Ceske knihy, No. 33. 24 Sept 57. p. 711.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSAN, V.

TECHNOLOGY

Periodical: SVET MOTORU. Vol. 12, no. 16, Aug. 1958.

RAKUSAN, V. Adjusting voltage regulators. (To be contd.) p. 504.

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSAN, V.

Electric starters for single-track motor vehicles.

p. 163 (Automobil) Vol. 1, no. 5, May 1957 Praha, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, Jan. 1958

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

KARUSAI, V.

The Pal-Magneton Factory at the Brno Exhibition.

p. 619 (Svet Motoru) Vol. 11, no. 20, Sept. 1957, Praha, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSAN, V.

621.317.334 : 621.43.04

5127. Measurement of the inductance and calculation of the electromagnetic energy of the primary circuit of ignition coils. J. KONEČNÝ AND V. RAKUŠAN. *Elektrotech. Obzor*, 44, No. 7, 375–80 (1955) in Czech.

A "working" inductance of the coil is introduced which enables the energy stored in the primary circuit and available for the igniting spark at the instant of contact-breaking to be calculated. Reversing the procedure, the method permits the primary circuit to be designed for maximum energy yield from given data or to suit stipulated requirements.

B. F. KRAUS

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKOSAN, V

4

JOURNAL ARTICLE

Source: Engineers' Digest, December, 1955, Vol 16, No. 12, pp 573-574.

Author: I. Koneony and V. Rakusan

Title: Measurement of Inductance and Electromagnetic Energy in the Primary Circuit of an Ignition Coil

(Original Source: From Elektrotechnicky Obzor, Vol 44, No. 7, 1955, pp 375-380.)

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RAKUSANOVA, H.

The building of health institutions.

P. 147, (Zeleznicar) No. 6, June 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSA-SUSZCZEWSKI, Kazimierz, mgr inz.; RAKUSA-SUSZCZEWSKI, Stanislaw, mgr

Course of cooling heated waters in reservoirs and sewages. Gosp wodna 24 no. 7:251-253 Jl '64.

1. Energoprojekt, Warszawa (for Rakusa-Suszczewski, Kazimierz).
2. Department of Hydrobiology, University, Warsaw (for Rakusa-Suszczewski, Stanislaw).

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

STYCZYNSKI, B.; RAKUSA-SUSZCZEWSKI, S.

Tednipedidae of selected water habitats of the Hornsund region (Spitzbergen). Polskie archiw hydrobiol 11 no. 3: 327-341 '63.

1. Department of Hydrobiology, University, Warsaw.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSA-SUSZCZEWSKI, Kazimierz, mgr inz.; RAKUSA-SUSZCZEWSKI, Stanislaw, mgr

Course of cooling heated waters in reservoirs and sewages. Gosp wodna 24 no. 7:251-253 Jl '64.

1. Energoprojekt, Warszawa (for Rakusa-Suszczewski, Kazimierz).
2. Department of Hydrobiology, University, Warsaw (for Rakusa-Suszczewski, Stanislaw).

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSA-SUSZCZEWSKI, St.

Thermics and chemistry of shallow fresh water pools in Spitzbergen. Polskie arch hydrobiol 11 no.2:169-187 '63.

1. Department of Hydrobiology, University, Warsaw.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

NAUMOVICH, V.M., doktor tekhn. nauk; RAKUSH, V.L., inzh.; REVZIN, L.L., inzh.; DRAPKIN, V.Yu.

Adoption of the technological layout for peat briquetting in the "Vertelishki" Plant. Torf. prom. 40 no.4:22-25 '63. (MIRA 16:10)

1. Institut torfa AN BSSR (for Naumovich). 2. Belgiprotorf (for Rakush, Revzin). 3. Torfobriketnyy zavod "Vertelishki" (for Drapkin).

(Grodno Province--Peat industry--Equipment and supplies)
(Briquets (Fuel))

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

MOT'KA, Leo, inzh.; MUSATOVA, Yelena [translator]; RAKUSHANOVA, Irena, otv. red.

[Through the most beautiful areas of Czhechoslovakia]Po samym krasivym mestam Chekhoslovakii. Prague, Sportovni a turisticke nakladatelstvi, 1962. 233 p. Translated from the Czech. (MIRA 15:10)

(Czechoslovakia--Guidebooks)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

1. [illegible], [illegible].

2. USSR (600)

4. Electric Lines

7. Electrical properties of electric transmission lines with split phases. Elektrichestvo No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

[illegible] . . .

[illegible] -- "Super Long-Distance Transmission of Energy [illegible] Alternating Current Over Open Lines." * (Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Acad Sci USSR, Power Inst imeni G. M. Krzhizhanovskiy, Moyby[illegible], 1955

SO: [illegible] Leto iz', No. 25, 18 Jun 55

* For Degree of Doctor of Technical Sciences

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSHEV, N.F.

AID P - 1278

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 2/30

Author : Rakushev, N. F., Kand. of Tech. Sci.

Title : Electric characteristics of a 400-kv power transmission line equipped with split conductors

Periodical : Elektrichestvo, 1, 8-12, Ja 1955

Abstract : In connection with the construction of a unified interconnected high voltage power system in the USSR, it became necessary to transmit capacities of 500 or 600 millions of watts at distances of 1000 to 1200 km through 400-kv single-circuit transmission lines. It was found that when the angle between the voltage vectors for certain average conditions equals 34° or 35°, the natural capacity of such transmissions will exceed by 2.1 to 2.25 times the carrying capacity of ordinary 400-kv lines. The author describes at length the experiments with splitting of conductors in each phase with a sufficiently large spacing between the separate

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AID P - 1278

Elektrichestvo, 1, 8-12, Ja 1955

Card 2/2 Pub. 27 - 2/30

conductors. Results obtained for a single-circuit line were as follows:

No. of conductors in the phase	Distance of transmission obtained (in km)	Critical corona voltage (in kv)
2	500 to 600	$\geq$ 525
3	700 to 800	$\geq$ 550
4	1200 to 1500	$\geq$ 575

The diameter of conductors was increased to 36 or 37 mm. Splitting into 5 or 6 conductors with standard ASU-240 dimensions was found to be uneconomical. The problem is in an experimental stage. Six drawings and diagrams. Six Russian references (1948-1954).

Institution : Kuybyshev Industrial Institute im. Kuybyshev

Submitted : Je 10, 1954

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUSHEV, Nikolay Filippovich; SOKOLOV, N.N., redaktor; VORONIN, K.P., tekhnicheskiy redaktor

[Closed circuit alternating current power transmission over very long distances; fundamentals of theory and electric calculation] Sverkhdal'niaia peredacha energii peremennym tokom po razomknutym liniiam; osnovy teorii i elektricheskogo rascheta. Moskva, Gos. energ.izd-vo, 1957. 159 p. (MLRA 10:6)
(Electric power distribution)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

112-57-7-14291

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 7, p 76 (USSR)

AUTHOR: Rakushev, N. F.

TITLE: Simplified Calculation of the Dynamic Stability of a Two-Machine Power System (Uproshchennyy raschet dinamicheskoy ustoychivosti dvukhmashinnoy energosistemy)

PERIODICAL: Sb. nauch. tr. Kuybyshevsk. industr. in.-ta (Collection of Scientific Transactions of the Kuybyshev Industrial Institute), 1956, Vol 1, Nr 6, pp 91-105

ABSTRACT: A simplified method of calculating dynamic stability of a two-machine system is considered, using the area rule and allowing for resistances of the transmission line. Equality of acceleration and deceleration areas is determined by a graphic integration method. An example is presented of how to calculate the switching-off angle by the above method.

T.B.Z.

Card 1/1

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

LESHYAKOV, F.; RAKUSHIN, A., inzh.

Book-shelf. Za rul. 20 no.7:31 Jl '62. (MIRA 15:7)
(Motor vehicles)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

L 47304-66 EWT(1)/EWP(m)
ACC NR: AP6030330 SOURCE CODE: UR/0170/66/011/002/0148/0153

AUTHOR: Royzen, L. I.; Dul'kin, I. N.; Rakushina, N. I.

ORG: Electrotechnical Institute im. V. I. Lenin, Moscow (Elektrotekhnicheskiy institut)

TITLE: Heat exchange in a streamline flow of straight traverse fins

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 11, no. 2, 1966, 148-153

TOPIC TAGS: heat exchange, traverse fin, Reynolds number, streamline flow

ABSTRACT: An experimental investigation of heat exchange has been carried out on a large-scale model of a channel with transverse fins in a gas flow. Distributions of local heat-exchange coefficients over the top of the fin are obtained as a function of geometric characteristics and the Reynolds number. The data obtained are used for calculating the correction factors to the efficiency in consideration of the nonuniformity of distribution of α over the height of the fin. An equation is presented for the mean heat exchange. The experimental data are compared with the

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L 47304-66

ACC NR: AP6030330

values available. Orig. art. has: 3 figures and 15 formulas. [Based on authors' abstract] [NT]

SUB CODE: 20/ SUBM DATE: 17Feb66/ ORIG REF: 003/ OTH REF: 004/

Card 2/2 afs

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

USSR / Sanitary Microbiology. Sanitary Microbiology of Water. F-3

Abs Jour: Ref Zhur-Biol., 1958, No 17, 76721.

Author : Rakushina, Ye. P.
Inst : ~~Gorki Medical Institute.~~
Title : Comparative Sanitary Characteristics of Several Methods of Disinfecting Drinking Water.

Orig Pub: Uch. zap. Gor'kovsk. med. in-ta, 1957, vyp. 3, 17-22.

Abstract: No abstract.

Card 1/1

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

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A-1

[redacted]

METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

ATAYEV, S.S., kand.tekhn.nauk; ZALOGO, V.F., inzh.; KOROBOCHKIN, M.A., inzh.; PEVZNER, E.D., kand.tekhn.nauk; ROGOVIN, Ya.A., inzh.; RAKUT', B.A., inzh.; RUBIN, V.I., inzh.; TIRKEL'TAUB, I.D., inzh.; FROLOV, N.P., kand.tekhn.nauk; YANKOVSKIY, I.P., inzh.; MOROGOVSKIY, V.M., inzh., retsenzent; ZHIZHEL', I.M., inzh., red.; KAZACHEK, G.A., red.; GOLUBTSOVA, P., red.; STEPANOVA, N., tekhn.red.

[Builder's handbook] Spravochnik mastera-stroitelia. Izd.4., perer. i dop. Minsk, Gos.izd-vo BSSR. Red.nauchno-tekhn. lit-ry, 1959. 659 p. (MIRA 13:1)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'-stva.

(Building)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

BAKUT', Y.S.

Revival of newborn infants from an asphyxiated condition. Zdrav.Belor. 5 no.12:12-13 D '59. (MIRA 13:4)

1. Iz kafedry akusherstva i ginekologii Minskogo meditsinskogo instituta.

(ASPHYXIA NEOTATORUM)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUT', V.S.; SHIROCHINA, V.P.

Pregnancy and the course of labor in the case of a double uterus. Zdrav. bel. 8 no.1:62-63 Ja '62. (MIRA 15:3)

1. Iz kafedry akusherstva i ginekologii (zaveduyushchiy - prof. I.M. Starovoytov) Minskogo meditsinskogo instituta i Vileyskoy oblastnoy bol'nitsy (glavnyy vrach A.S. Romashko).
(UTERUS--ABNORMITIES AND DEFORMITIES)
(PREGNANCY, COMPLICATIONS OF)
(LABOR, COMPLICATED)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUT', V.S., kand. med. nauk

Course of pregnancy and labor in women with heart diseases; from dataof the Grodno Maternity Home for 7 years. Zdrav. Bel. 9 no.3:61-64 Mr'63 (MIRA 16:12)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. M.V. Mogilev) Grodnenskogo gosudarstvennogo meditsinskogo instituta.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

BAKUT', V. S., Cand Med Sci (diss) -- "The resoration of the life functions of the organism in asphyxiation by intraarterial administration of a drug complex". Minsk, 1960. 1[illegible] pp (Minsk State Med Inst), 150 copies (KL, No 14, 1960, 138)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUTIN, Ye.A., inzh.

Using pneumatic machine-tool attachments in manufacturing excavators at the "Rabochii metallist" Plant. Stroi.i dor. mashinostr. 4 no.12:24-27 D '59. (MIRA 13:3)
(Excavating machinery) (Machine tools--attachments)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

YAKIMOV, P.A.; KOROL'KOV, I.I.; RAKUTINA, N.S.; MIKHINA, A.S.

Study of the conditions for purifying hydrolysates and the composition of the nutrient media for the biosynthesis of penicillin on a base of carbohydrates from wood hydrolysates and agricultural wastes. Trudy Len.khim.-farm.inst. no.15:17-22 '62. (MIRA 15:11)

1. Kafedra tekhnologii antibiotikov (zav. - prof. P.A.Yakimov) Leningradskogo khimiko-farmatsevticheskogo instituta i laboratoriya gidroliza drevesiny razbavlennymi kislotami Nauchno-issledovatel'skogo instituta gidroliznoy i sul'fitnospirtovoy promyshlennosti (zav. - kand.tekhn.nauk I.I.Korol'kov).

(PENICILLIN)
(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)
(CARBOHYDRATES)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKUTS', A., svinarka

So that we may have the mountains of meat. Rab.i sial. 36 no.6:10 Je '60. (MIRA 13:7)

1. Sovkhoz "Slonimski."
(Slonim District--Swine--Feeding and feeds)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

BASIN, Dmitriy Mikhaylovich; KOZLOV, Anatoliy Ivanovich; KAKUTS, Yevgeniy Petrovich; CHUYENOK, V.S., red.; ZLOTNIKOVA, Ye.A., red. izd-va; KARLOVA, G.L., tekhn. red.

[Economics of the utilization of spent sulfite liquor]Ekonomika pererabotki sul'fitnykh shchelokov. Moskva, Goslesbumizdat, 1962. 89 p. (MIRA 15:12)
(Sulfite liquor) (Woodpulp industry--By-products)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

UCHASTKINA, Z.V.; ALEKSHINA, [illegible]

Economic evaluation of the production of viscose cellulose for staple rayon without hot refining. Trudy LTITSBP no.12:130-134 '64. (MIRA 18:8)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RA[illegible], [illegible]

[illegible] Trudy LTITSBP
[illegible] (MIRA 18:8)

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PROCESSES AND PROPERTIES INDEX

BC

B-I-8

Utilisation of natural Glauber's salt from the Gulf of Karabugaz. N. D. ZELINSKI, M. A. HABUSIN, P. P. BRAGNOV, and A. N. TYUVA (Bull. Acad. Sci. U.S.S.R., 1930, 707—714).—To obtain information regarding the practicability of utilising Na_2SO_4 by the ammonia-soda process (cf. Gedroich, A., 1877, ii, 26), laboratory experiments have been made on the electrolysis of $(NH_4)_2SO_4$ solutions at 80° in a cell with a porous diaphragm, a current of air being kept passing through the solution in the cathode chamber. Proportions up to 70% of the $(NH_4)_2SO_4$ may be decomposed in this way and only traces of H_2SO_4 are formed. Similar experiments with Na_2SO_4 solutions yield H_2SO_4 containing only small proportions of Na_2SO_4 and only traces of persulphuric or Caro's acid. T. H. POPE.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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CA

2

Exceptional tendency of the sodium ion to form hydrates and the importance of this for the theory of binding water of crystallization. M. A. Rakuzin. *Trans. Khem. Zhur.* 7, Wiss. *Teil*, 65-74(1932).—With the exception of oxalate and nitrate, Na salts are characterized by a tendency to hold large units of water of crystn. By designating as the H_2O "load" of the crystal the ratio of nH_2O to the hydrated or anhyd. mole., expressed in percentage, only those hydrates are stable, whose anhyd. "load" is less than 100. Such salts are: $NaCl.2H_2O$, $NaBr.2H_2O$, $NaI.2H_2O$, $NaMnO_4.3H_2O$, $Na_2B_4O_7.10H_2O$, $Na_3PO_4.10H_2O$, $Na_4Fe(CN)_6.12H_2O$, $Na_2PtCl_6.6H_2O$, $Na_2MoO_4.2H_2O$, $Na_2WO_4.2H_2O$, $C_6(CO_2Na)_6.18H_2O$ and $C_6(CO_2Na)_3.12H_2O$. Their anhyd. "loads" are, resp.: 61.52, 34.95, 24.00, 38.22, 88.97, 67.56, 71.05, 23.72, 33.15, 16.28, 68.33 and 45.56. Hydrates having an anhyd. "load" greater or equal to 100 are: $Na_2S.9H_2O$, $Na_2S.10H_2O$, $Na_2SO_4.10H_2O$, $Na_2MnO_4.10H_2O$, $Na_2CrO_4.10H_2O$, $Na_2SO_3.7H_2O$, $Na_3PO_4.12H_2O$, $Na_2HPO_4.12H_2O$, $Na_2HAsO_4.12H_2O$ and $Na_2O.8H_2O$. These have anhyd. "loads," resp., 207.00, 230.40, 129.70, 109.75, 110.81, 109.31, 100, 125.45, 151.68, 116.12 and 184.61. The same is found to be true of other hydrates, such as salts of K, Li, NH_4, Sb and Mg, also in the case of alums. S. I. Madorsky

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The utilization of natural Glauber salt. II. N. D. ZELINSKII, M. A. RAKUZIN, P. P. BORISOV AND A. N. TITOVA. *J. Chem. Ind.* (Moscow) 1932, No. 1, 21-3.—*C. A.* **25**, 4078.—By placing a 1.5-2-cm. layer of solid $Na_2SO_4 \cdot 10H_2O$ over the Hg electrode in the electrolytic prepn. of NaOH and H_2SO_4, higher current efficiencies are attained, since Na is formed instead of H_2. Increased temp. also has a favorable effect on the efficiency.

H. M. LINDSTEN

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

PROCESSES AND PROPERTIES INDEX

Utilization of natural Glauber salt from the Gulf of Karabugaz. N. D. ZELINSKII, M. A. RAKUZIN, P. P. BORISOV AND A. N. TITOVA. *Bull. acad. sci. U. R. S. S., Classe sci. phys.-math.* 1930, 707-14.—The article is based on a proposal made by Rakuzin and Zelinski in 1928 to utilize Glauber salt for production of soda by the Solvay method, and refers particularly to electrolytic decompn. of $(NH_4)_2SO_4$ formed during the process, to regenerate the NH_3 and produce free H_2SO_4. Electrolytic decompn. of Na_2SO_4 to form NaOH and H_2SO_4 was also studied. Lab. expts are described and conclusions drawn that the process is practical and offers great possibilities. ROBERT SCHLESS

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CO

22

Latest data on the turpentine industry. IV. Technical conditions for extraction. M. A. Rakusin. *J. Chem. Ind.* (Russia) 6, 484-6(1929); cf. *Ibid* 4, 880(1927). A brief review of methods of turpentine extn. in foreign countries. Theodore M. Switz

METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

PROCESSES AND PROPERTIES INDEX

CA

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A new simplified method of manufacture of sulfuric acid from gypsum. N. D. ZELINSKII AND M. A. RAKUZIN. *Compt. rend. acad. sci. U. R. S. S.* 1930A, 471-4. Two methods employed for the manuf. of H_2SO_4 are briefly discussed. The first consists in heating a mixt. of anhyd. $CaSO_4$, coal, sand and clay in the presence of a catalyst (Fe_2O_3). The resulting gases, SO_2, CO_2 and O_2, are suitable for chamber and contact processes. The resulting solid by-product is portland cement. The second method consists in mixing 4-in. lumps of anhyd. $CaSO_4$ with coke in the proportion 1:1 and burning the mixt. in a rotating generator, into which compressed air is blown. $CaSO_4 + CO = CaO + CO_2 + SO_2$. The solid by-product is treated with water and may be used as *fertilizer*. In a new electrolytic method gypsum is boiled in an aq. soln. of $(NH_4)_2CO_3$ to form $CaCO_3$ and $(NH_4)_2SO_4$. The manuf. of $(NH_4)_2SO_4$ by this process is proposed near NH_3 plants which will supply the necessary NH_3. Lime kiln or flue gases are to supply the CO_2 for the formation of $(NH_4)_2CO_3$. To manuf. H_2SO_4, $(NH_4)_2SO_4$ is electrolyzed in aq. soln. Where H_2 and O_2 are the by-products of electrolysis, the NH_3 is recovered and returned to the process as $(NH_4)_2CO_3$. Pb anodes and Fe cathodes and low concn. of produced acid are suggested for electrolysis. Preliminary expts. gave the following results: A decompn. of 76.60% $(NH_4)_2SO_4$ was obtained and 35.95% H_2SO_4 concn. reached. Because of the defective app. the $(NH_4)_2SO_4$ contained in the acid was as high as 0.70-4.40%.

JAMES SORBY

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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PROCESSES AND PROPERTIES INDEX

a

26

Influence of temperature on the sedimentation of linseed oil. S. Z. Rakuts. *Maslobolno Zhirovoe Delo* 12, 36-[illegible] (1936).—Different specimens of linseed oil of room temp. and after preliminary heating at 120° and 200° were held at 18-20°, 34-37°, 68-75° and −3° and −11° for various periods of time from 6 hrs. to 28 days. The tests show that preliminary heating retards considerably the sedimentation rate. The settling of oil at 18-20° is considered most practicable. Cooling the oil to 0° before settling gives rapid and equally good results. Chas. Blanc

COMMON ELEMENTS

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PROCESSES AND PROPERTIES INDEX

Cu

Neutral zinc resinate. S. Z. Rakuts. Russ. 47,022, May 31, 1936. ZnO is fused with rosin in the presence of linseed oil.

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1ST AND 2ND ORDERS 3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

Cor

25

Reaction of rosin with zinc oxide in linseed oil. S. Rakuta. *Org. Chem. Ind.* (U.S.S.R.) 1, 699-11 (1936).—In the preliminary communication it is shown that a complete reaction between rosin and ZnO with the formation of neutral Zn resinate can be effected in linseed oil. Exptl. evidence shows that ZnO does not react with linseed oil at temps. below 300°. Mixts. of 100 parts of rosin and 12 parts of ZnO with 15, 20, 25, 30, 35, 40, 45 and 50 parts of linseed oil gave mixts. with softening points 103°, 98°, 88°, 82°, 77°, 72°, 67° and 65°, resp. The application of this method to the production of lacquers is being investigated. Chas. Blanc

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Dibutyl phthalate as a softener for nitrolacquers

Rakutz, *Za Lakokrasochnaya Ind.* 1935, No. 1, [illegible]

The purification of a crude Russian sample is described.

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1ST AND 2ND ORDER

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3RD AND 4TH ORDER

BC

D-II-8

[illegible] effect in marking paints, and for [illegible] or layers of lacquer coatings. [illegible] U. Appl. Chem. Abs., Nov. 6, 1937— [illegible] with specially [illegible] the [illegible] of pigment [illegible] when all points of [illegible] are applied to dark surfaces, or when the paint contains dark pigments; the effect is not observed when the thickness of the paint layer is considerably > the [illegible] of the dark particles. Many colors are obtained by using dark-free oils, coloring the pigment to a fluorescent compatible with the thickness of the paint layer, or excluding dark from the resin. R. T.

CODE

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COMMON ELEMENTS

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RAKVIN, M.

The International Fish Fair in Zadar; fishes in aquariums and modern equipment for fisheries and fishing boats, p. 116.

POMORSTVO. Rijeka, Yugoslavia. (Publication on shipbuilding and merchant marine; with English and French summaries. Includes a supplement: Bilten Pomorstva o radu Sindikata radnika i sluzbenika pomorske privrede Jugoslavije, information bulletin on the activity of the Union of Workers and Employees in the Maritime Economy of Yugoslavia.) Vol. 13, no. 4, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, Sept. 1959.

Uncl.

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RAKVNENKO, V.N. [Rakivnenko, V.M.]; MAKHOVIKOV, V.I.

Stress concentration around a circular hole in a square plate. Dop.AN URSR no.4:464-468 '61. (MIRA 14:6)

1. Ukrainskiy zaochnyy politekhnicheskiy institut. Predstavleno akademikom AN USSR G. N. Savinym.
(Elastic plates and shells)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RAKY, A.

Experimentation with 3-cored drilling bits with inferior washing. p. 68

PETROL SI GAZE, Bucuresti, Vol 7, No. 2, Feb., 1956

SO: East European Accessions List (EEAL) Library of Congress, Vol 5, No. 7, July, 1956

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RAKYTIAK, I.

AGRICULTURE

Periodical MECHANISACE ZEMEDELSTVI. Vol. 6, no. 24, Dec. 1958.

RAKYTIAK, I. What is new in the development center of machine-tractor stations? p. 568/

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

ACCESSION NR: AT4044990 S/3110/64/000/051/0004/0007

B

AUTHOR: Rak-Rayevskaya, A. A.

TITLE: Development of new chromatographic methods for the ultrapurification of concentrated solutions of zinc sulfate

SOURCE: Leningrad. Gosudarstvenny*y institut prikladnoy khimii. Trudy*, no. 51, 1964. Khimiya i tekhnologiya lyuminoforov (Chemistry and technology of luminophors), 4-7

TOPIC TAGS: luminophor, zinc sulfide, zinc sulfate, luminophor purification, column chromatography, iron impurity, nickel impurity, copper impurity, cobalt impurity, dimethylglyoxime, Alpha-nitroso-Beta-naphthol, 5,7-dibromo-8-hydroxyquinoline, thionalide

ABSTRACT: In order to evaluate the possibility of using chromatographic techniques for the purification of zinc sulfate, the author attempted to purify a solution containing 300-350 g $ZnSO_4$ per liter. After treatment with perhydrol (1 ml/liter) and filtration, this solution contained 6-8x10^{-5}% Fe, 1-2x10^{-5}% Cu, 1x10^{-4}% Ni and 2x10^{-5}% Co. This solution was then poured through an absorption column in which the lower (first) half consisted of mixtures of dimethylglyoxime, α-nitroso-

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β-naphthol, 5,7-dibromo-8-hydroxyquinoline and thionalide with activated charcoal in ratios of 1:10, 1:10, 1:5 and 1:5, respectively, and the upper (second) half consisted of pure activated charcoal. In the case of 5,7-dibromo-8-hydroxyquinoline, 0.4 ml of 98% acetic acid was added to lower the pH to 3.5-4. The degree of purification achieved with all four reagents was approximately the same, resulting in Fe, Ni and Co concentrations of about 10^{-5}% and Cu concentrations of 10^{-6}%, and was comparable to the purification achieved with more dilute $ZnSO_4$ solutions (10-13%), provided that the concentrated solution was poured through more slowly. In terms of the amount of $ZnSO_4$ purified per gram, thionalide (1986 g/g) was the most efficient and α-nitroso-β-naphthol (515 g/g) the least. Orig. art. has: 1 table and 1 figure.

ASSOCIATION: Gosudarstvennyy institut prikladnoy khimii, Leningrad (State Institute of Applied Chemistry)

SUBMITTED: 00 ENCL: 00 SUB CODE: IC

NO REF SOV: 003 OTHER: 000

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ACCESSION NR: AT4044991 S/3110/64/000/051/0008/0009

32

AUTHOR: Rak-Rayevskaya, A. A.

TITLE: A chromatographic method for the ultrapurification of sodium thiosulfate solutions

SOURCE: Leningrad. Gosudarstvenny*y institut prikladnoy khimii. Trudy*, no. 51, 1964. Khimiya i tekhnologiya lyuminoforov (Chemistry and technology of luminophors), 8-9 " " "

TOPIC TAGS: luminophor, zinc sulfide luminophor, sodium thiosulfate, sodium thiosulfate purification, column chromatography, absorption column, complexing agent, dithizone, activated charcoal, iron absorption, copper absorption, nickel absorption

ABSTRACT: In order to prepare extremely pure ZnS for luminophors by the thiosulfate method, the sodium thiosulfate must first be freed of traces of contaminating metals. The author therefore developed a chromatographic technique in which sodium thiosulfate (350-400 g/liter) is poured through a column packed with activated charcoal (the upper portion) and a 3:1 mixture of dithizone (diphenylthiocarbazone) and activated charcoal (the lower portion). This process decreased the concentration of Fe, Cu and Ni from 5×10^{-3}-1×10^{-2}, 2-3×10^{-5} and 5×10^{-6}% to 1-3×10^{-5}, ≤ 1-$2\times$

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10^{-6} and $\leq 3\times10^{-6}$%, respectively. The efficiency of the column is such that 390 g of $Na_2S_2O_3$ can be purified per gram of dithizone.

ASSOCIATION: Gosudarstvenny*y institut prikladnoy khimii, Leningrad (State Institute of Applied Chemistry)

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TIMISHCHENKO, M.G.; BALANOV, A.T.

Study of a wide-band limiter. Elektrosviaz' 15 no.12:19-28 D '61. (MIRA 14:12)

(Radio filters)
(Radio detectors)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

All about television. Pt. 2 Detection. p. 66. ELEKTRONIKA.
(Zajednica jugoslovenske elektroprivrede) Beograd. Vol. 10, no. 7/8,
1956.

SOURCE: East European Accessions List, (EEAL), Library of Congress,
Vol. 5, no. 12, December 1956

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RALASIC, Berislav, inz. (Zagreb)

Heading for the European standard of colored television.
Elektrotehnicar 16 no.7/8:97-100 '63.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RALASIC, B.

All about television. Pt. e. Horizontal generator. p. 56.
ELEKTROTEHNICAR (Tehnicka knjiga) Zegreb. Vol. 10, no.
5/6, 1956

SOURCE: East Europe Accession Lists (EEAL),
Library of Congress, Vol. 5, no. 11, Nov. 1956

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

All about television; the problem of using television programs for motion pictures. Prog. TELEVIZIJA. (Zajednica jugoslovenske elektroprivrede) Beograd. Vol. 10, no. 9/10, 1956.

SOURCE: East European Accessions List, (EEAL), Library of Congress, Vol. 5, no. 12, December 1956

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013441

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

BALASIC, B.

BALASIC, B. All about television. Pt. 5 Automatic regulation of amplification and noise detectors. p. 123.
-Levi-. Rotating short-wave and television antennas. p. 124.

Vol. 10, No. 11/12, 1956.
ELEKTROTEHNICKI
TECHNICCY
Zagreb, Yugoslavia

So: East European Accession, Vol. 6, No. 2, February 1957

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RAL'EV, T.S.

Regulate the terminology in standardization, Standartizatsiia 29 no.1:59 Ja '65. (MIRA 18:4)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

PALBA, M.

The two-tube receiver. p. 48.
(Radioamater, Vol. 11, no. 2, Feb. 1957. Beograd, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 7, July 1957. Uncl.

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