

LOLJA, K.K.; OYKS, G.N.

Sheet metal production from semikilled-type ingots with a two-layer crystal structure. Izv. vys. ucheb. zav.; chern. met. 6 no. 3:53-62 '63. (MIA 16:5)

1. Rustavskiy metallurgicheskiy zavod i Moskovskiy institut stali i splavov.

(Steel ingots) (Rolling (Metalwork))

OYKS, C.N.

PHASE I BOOK EXPLOITATION

SOV/6329

Oyks, Grigoriy Naumovich, Paruir Apetnekovich Matevosyan, Il'ya Kasifovich Ansheles, Vladimir Ivanovich Danilin, Gennadiy Anisimovich Sokolov, Ivan Aleksandrovich Baranov, and Viktor Mikhaylovich Selivanov.

Novaya tekhnologiya vyplavki sharikopodshipnikovoy stali (New Technology of Melting Ball-Bearing Steel). Moskva, Metallurgizdat, 1962. 124 p. Errata slip inserted. 2250 copies printed.

Ed. of Publishing House: V. I. Ptitsyna; Tech. Ed.: P.G. Islent'yeva.

PURPOSE: This book is intended for metallurgical engineers of steel-melting shops and central plant laboratories. It may also be useful to students at tekhnikums and metallurgical schools of institutions of higher learning.

COVERAGE: The book reviews the new technology of making ball-bearing steel, which was introduced at the "Krasnyy Oktyabr'" Metallurgical Plant in Volgograd. Vacuum degassing of metal is discussed as

Card 1/4

1/2

New Technology (Cont.)

SOV/6329

an intermediate technological stage of the melting process. A brief outline of the conventional method of melting ball-bearing steel is presented, along with advantages offered by the new technology, which ensures an improved steel quality. Designs of vacuum-units of the Plant are described. The book also reviews experiments in making silicon-free ball-bearing steel by double vacuum degassing. The quality of steel produced for several years by the new melting technology is discussed in detail. No personalities are mentioned. There are 61 references: 56 Soviet, 3 German, and 2 English.

TABLE OF CONTENTS:

Introduction	5
Ch. I. Brief Review of Existing Methods of Melting Ball-Bearing Steel	7
Requirements for ball-bearing steel	7
Basic principles of the classical technology of melting ball-bearing steel	10

Card 2/4

1/2

OYKS, Grigoriy Naumovich, prof., doktor tekhn.nauk; IOFFE, Khaya Mendelevna; POZDMYAKOVA, G.L., red.izd.-va; MIKHAYLOVA, V.V., tekhn. red.

[Steelmaking; calculations] Proizvodstvo stali; raschety. Izd.2., perer. i dop. Moskva, Metallurgizdat, 1964. 55~ p.
(MIRA 17:3)

PHASE I BOOK EXPLOITATION

SOV/6329

Grom, Grigory Mamonovich, Parair Apetnukovich Matevosyan, Il'ya
Anisimovich Ananches, Vladimir Ivanovich Danilin, Gennadiy
Anisimovich Sokolov, Ivan Aleksandrovich Baranov, and Viktor
Mikhaylovich Selivanov.

Novaya tekhnologiya vypisvki sharikopodshivkovoy stali (New Tech-
nology of Melting Ball-Bearing Steel). Moscow, Metallurgizdat,
1962. 124 p. Errata slip inserted. 2250 copies printed.

Ed. of Publishing House: V. I. Ptitsyna; Tech. Ed.: P.G. Islet'yeva.

PURPOSE: This book is intended for metallurgical engineers of steel-
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steel, which was introduced at the "Krasnyy Oktyabr" Metallurgical
Plant in Volgograd. Int Vacuum degassing of metal is discussed as

Card 1/4

7
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S/148/65/000/003/002/007
E111/E435

AUTHORS: Lolua, K.K., Qyka, G.N.

TITLE: Production of plates from ingots of the semi-killed type with a two-layer crystalline structure

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no.3, 1963, 53-62

TEXT: Production of semi-killed steel in the USSR has increased in recent years. At the IRMZ experimental heats of semi-killed steel were produced and rolled in the usual way into plates, samples being taken from the stock at various stages. The samples were examined and compared with reference samples of rimming steel. The ladle analysis of the steel was 0.2% C, 0.48% Mn, 0.017% P, and 0.029% S. Deoxidation for the semi-killed ingots was effected with aluminum (220 g/ton steel) into the partly filled ingot mould during the bottom-pouring. With the technique used, the piping in the semi-killed steel welded up on relling and the elements were distributed uniformly both along and across the ingot. The nature of the distribution of inclusions in the two types of ingot differed somewhat: in the rimming steel contamination with sulfide inclusions increases from the outside

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S/148/63/000/001/004/019
E071/E151

AUTHORS: Gankin, V.B., and Oyks, G.N.

TITLE: The mechanism of crystallisation of rimming steel
during continuous casting

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Chernaya metallurgiya, no.1, 1963, 34-41

TEXT: The crystallisation front in a continuously cast ingot was investigated. The position of the front in continuous casting was determined by three methods: 1) by emptying the remaining liquid from the ingot (the structure of the steel skin was studied after a break out in the region of the secondary cooling); 2) by introduction of radioactive phosphorus during casting and subsequent radiography of the ingot cross-section; 3) by introduction of sulphur during casting with subsequent sulphur prints of longitudinal and transverse section. It was confirmed by all the above methods that the formation of gas bubbles (subsequent blow-holes) takes place at the solid-liquid interface. The bubbles open towards the liquid centre of the ingot. In the transverse section of the skin the bubbles increase in volume as solidification

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5/148/63/000/001/004/019

The mechanism of crystallisation... E071/E151

progresses. An increase in the teeming velocity (for steel containing 0.14-0.22% C) leads to a decrease in the length and diameter of the bubbles and the width of the bubble zone. From literature data and the results obtained, the probable mechanism of the formation of continuously cast rimming steel ingots (of different carbon contents) was postulated. In the region of the crystalliser there are two distinct cooling zones - an upper (from 50 to 300 mm) with a high rate of heat removal ($1.2-1.6 \times 10^6$ kcal per m^2hr) and a lower where, due to the greater thickness of the skin and greater clearance between the skin and mould walls, the rate of heat removal is lower ($0.2-0.4 \times 10^6$ kcal/ m^2hr). In the upper zone the rate of crystallisation is high, the thickness of the skin is non-uniform (due to differences in the contact between the skin and mould walls and the scouring action of the falling stream). Occasionally, when the velocity of crystallisation exceeds the rate of bubble growth, some bubbles are trapped in the skin. With increasing amounts of solid, the crystallisation velocity decreases, and the ascending currents of gas and metal flush out the bubbles and the metal enriched in segregates from

Card 2/3

The mechanism of crystallisation... S/148/03/000/001/004/019
E071/E151

the internal surface of the skin, so promoting the formation of a dense skin. In ingots containing 0.14-0.22% C the formation of bubbles begins in the lower part of the crystalliser, while in ingots containing 0.06-0.10% C this takes place later in the region of secondary cooling. The formation of the bubble zone is influenced by the ferrostatic pressure of the liquid steel, so that in steel containing 0.14-0.22% C bubble growth stops earlier and the bubbles are short, while in low carbon steel the bubble length depends mainly on the degree of oxidation. The influence of the degree of oxidation on the shape of the bubble zone and the density of the central zone is briefly discussed. There are 6 figures.

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

SUBMITTED: October 6, 1962

Card 3/3

OYKS, Grigoriy Naumovich; MATEVOSYAN, Paruir Apetnukovich; ANSHELES,
Il'ya Iosifovich; DANILIN, Vladimir Ivanovich; SOKOLOV, Gennadiy
Anisimovich; BARANOV, Ivan Aleksandrovich; SELIVANOV, Viktor
Mikhaylovich; PITTSYNA, V.I., red. izd-va; ISLENT'YEVA, P.G.,
tekhn. red.

[New technology of the manufacture of ball-bearing steel] Novaya
tekhnologiya vyplavki sharikopodshipnikovoi stali. Moskva, Metal-
lurgizdat, 1962. 124 p.
(Steel--Electrometallurgy) (Ball bearings)

NAM, B.P.; OIKS, G.N. [Oyks, G.N.]; KUDRIN, V.A.; NECIKIN, I.M. [Nechkin, I.M.]

Influence of hydrogen concentration in the final Martin slag
on the variation of hydrogen content in the metal during the
discharge and teeming. Analele metalurgie 16 no.2:31-35
Ap-Je 62.

BARANOV, I.A.; OYKS, G.N.; ANSHELES, I.I.; PONOMAREVA, Ye.P.; KACHANOV,
N.N.

Vacuum treatment of silicon-free, ball-bearing steel. Izv. vys.
ucheb. zav.; chern. met. 5 no.7:78-85 '62. (MIRA 15:8)

1. Moskovskiy institut stali i splavov.
(Bearing metals) (Vacuum metallurgy)

S/148/62/000/007/002/005
E071/E183

AUTHORS: Baranov, I.A., Oyks, G.N., Ansheles, I.I.,
Ponomareva, Ye.P., and Kachanov, N.N.

TITLE: Vacuum treated silicon-free ball-bearing steel

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Chernaya metallurgiya, no.7, 1962, 78-85

TEXT: In an attempt to improve the purity of ball-bearing steel, the possibility of modifying the usual deoxidising practice (vacuum treatment in the ladle and addition of 6 kg/t of ferro-silicon and 160 g/t of aluminium) was investigated. Four heats of silicon-free ball-bearing steel were made in a 16-t electric furnace and teemed into 4-t ingots. At the end of the vacuum treatment [Abstractor's note: no details given] undeoxidised metal was passed for teeming. In two heats 60-100 g/t of aluminium was added to the funnel. In the remaining two heats, aluminium was added to the ingot mould; of these two ingots one was deoxidised and the other - teemed through the same siphon - was not deoxidised. The remaining metal from these two heats (not deoxidised either with silicon or aluminium) was top

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Vacuum treated silicon-free ...

S/148/62/000/007/002/005
E071/E183

poured; one ingot under vacuum (3rd ingot) and one in air (4th ingot). From each ingot samples of rolled square (78 mm) were taken at a distance of 16, 30, 62 and 97.5% from the top; some specimens of the finished product (14-27 mm round) were also investigated. The results of the metallurgical studies confirmed the data on the total amount of inclusions in steel, determined by the electrolytic dissolution of 3-5 specimens from each ingot. In steel produced by the usual method (deoxidation in the vacuum treatment) the amount of inclusions was 0.0026 wt.%; in silicon-free steel deoxidised on teeming in the funnel 0.0031 wt.%; deoxidised in the mould 0.0083 wt.%; and top poured under vacuum 0.0048 wt.%. The smallest amount of oxide inclusions was in steel teemed under vacuum without deoxidation. In all silicon-free steels the amount of globular inclusions was smaller than in the normal heats. Undeoxidised, bottom-poured steel had more impurities than top-poured steel. There are 3 figures and 2 tables.

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

Card 2/2

KOSTEREV, L.B.; OYKS, G.N.

Nonmetallic inclusions in 18-ton rimmed steel ingots. Izv.
vys. ucheb. zav.; chern. met. 4 no.11:45-56 '61. (MIRA 14:12)

1. Moskovskiy institut stali.
(Steel ingots—Defects)
(Nonmetallic materials)

BARANOV, I.A.; OYKS, G.N.; ANSHELES, I.I.

Efficiency of the vacuum treatment of liquid steel. Izv. vys.
ucheb. zav., chern met. 5 no.1:60-61 '62. (MIRA 15:2)

1. Moskovskiy institut stali.
(Vacuum metallurgy)
(Steel-Metallurgy)

OYKHER, D2-17.

PAGE 1 BOOK EXCERPTIONS FOR 437

Instrumental methods: applications of photochemical and physical procedures
Instrumental methods: applications of photochemical and physical procedures
Instrumental methods: applications of photochemical and physical procedures
Instrumental methods: applications of photochemical and physical procedures

M. I. Ash, Director, Bureau of Technical Services, Professor Fred. R. J.
A. M. Fletcher, Manager, Bureau of Technical Services and Equipment
Commissioner (Technical), U.S. Patent Office, Register.

PURPOSE: This publication on excitation is intended for scientists and engineers
interested in the electronic industry.

CONTENTS: The book contains data on the present state
of knowledge concerning methods and instruments used in the production
of electronic components and instruments. New problems
are discussed. Reference is given to problems of automation and mechanization of
production. In the application of new techniques to process control, often
models, and devices made of metals, the uses which deals with new
environmental controls involving the use of ultraviolet and radio isotopes. Some
commercial aspects of materials and measurement techniques are also discussed
in this section. In general, the information is intended for scientific and
technical workers in the field of electronic components.

Author: E. J. Condon, Chairman of Technical Committee. Editor of
Technical Committee of National Bureau of Standards Board of
Standards.

Other: B. C. Condon, Chairman of Technical Committee. Committee for
Applications of High-Vacuum Instruments.

Committee: B. C. Condon, Chairman of Technical Committee. Committee
for Standardization of Technical Terms. Chairman of Technical Committee
for Standardization of Technical Terms and Their Application.

CONTRIBUTORS AND EDITORS

Conrad, A. J., Registrar, Application of Photo Control to
Technical Measurements.

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Institute of Technical Services, and Dr. Director, Graduate School of
Technical Sciences, University of Alberta, of Marketing in Auto-
matic Sales and Export Trade Field of Application.

Gordon, John, Chairman of Technical Services, U. S. Patent Office, Register,
and U. S. Commissioner of Patents, Bureau of Technical Services, Bureau of
Standardization of Standards for Gold Plating in Instrument Manufacture.

Hollingshead, Paul, Registrar, Gold Plating of Metals in Manufacturing
Production.

Kempner, V. D., Registrar, One of Contributors to Instrument Manufacture

Kneller, A. G., Registrar, Methods of Calibrating Photoelectric Cells

Ortiz, Luis, Chairman of Technical Services, Professor and Director of
Calibration for Accuracy in the Marketing of Electrical Goods
Manufacturing, Sales, Research, Research Developments in the Technology of
Marketing of Parts in Instrument Manufacture.

Card 816

CYRANO/TT, 1.1.

21/52

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OYREKH, L.I., inshener.

Welding tubes to high-pressure boiler drums without subsequent heat treatment, Elek. sta. 27 no.10:44-45 O '56. (MLRA 9:12)
(Boilers--Welding)

~~SECRET~~, L.I., inzh.

Changing chamotte brick lining for heat-resistant concrete.
Elek.sta. 28 no.10:76-77 '57. (MIRA 10:11)
(Boilers)

OYRMKH, L.I., inzhener.

Securing water-screen tubes. Elek.sta. 27 no.1:47-48 Ja '56.
(Boilers--Maintenance and repair) (MLRA 9:6)

OYREKH, L.I., inshener.

Correction of a defect in the longitudinal seam of a boiler drum.
Elek.sta. 27 no.4:55-56 Ap '56. (MLRA 9:8)
(Boilers--Maintenance and repair)

Orkney, I. L.

FURNACES - AND CO.

Commodities wanted by
Orkney, Shetland, I.

Insh.

Northland, I. L. - AND CO., LTD.
Furnaces, etc., I.

OIRZANOWSKA, Janina (Warszawa)

Serologic differentiation of distemper and Hepatitis contagiosa canis
in dogs and foxes, using the complement fixation test. Rocznika nauk
rolnictwa 70 no.1/4:241-242 '60. (EKAJ 10:9)

(Dogs) (Foxes) (Distemper) (Hepatitis)
(Complement fixation)

OYSSAR, E. [Oissaar, E.] (Tallin); SHCHELKIN, K.I. (Moskva)

What is vacuum? Priroda 52 no.10:125-126 '63. (MIRA L:11)

1. Chlen-korrespondent AN SSSR (for Shchelkin).

卷之三

Cysteine-115 = "D" and Cysteine-116 = "E" in the sequence of Intern 1 loop.

37: "210, 11 March 51, 'Letter to Harry' to Mr. T. C. ...".

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R0012380

OYSTRAKH, D. G.

25913 Oystrakh, D. G. Klinika I Puti Ratsional'noy Terapiivyyao
Granuliruyushchikh Ognestrel'nykh Ran. V SB: Problemy Vosstanovit.
Lecheniya Invalidov. Voyny. Astrakhan; 1948, S. 175-202

SO: Letopis' Zhurnal Statey, No. 30, Moscow, 1948

SECRET

Distracted, S.A. and Law, W. 12-12-1968
A traffic stop was made at 10:30 P.M., 12-12-1968.

S : U-200, 11 March 68, 12-12-1968, 10:30 P.M., 12-12-1968.

OYSTRAKH, D. G.

26941 Oystrekh, D. G. Reaktivnost' fiziologicheskoy sistemy soyedinitel'-noy tkani pri raneniyakh myagkikh tkanej s zamedlennoy regeneratsieye
V sb: Problemy vosstanovit. lecheniya invalidov Otechestv. voyny.
Astrakhan', 1948, s. 208-13.

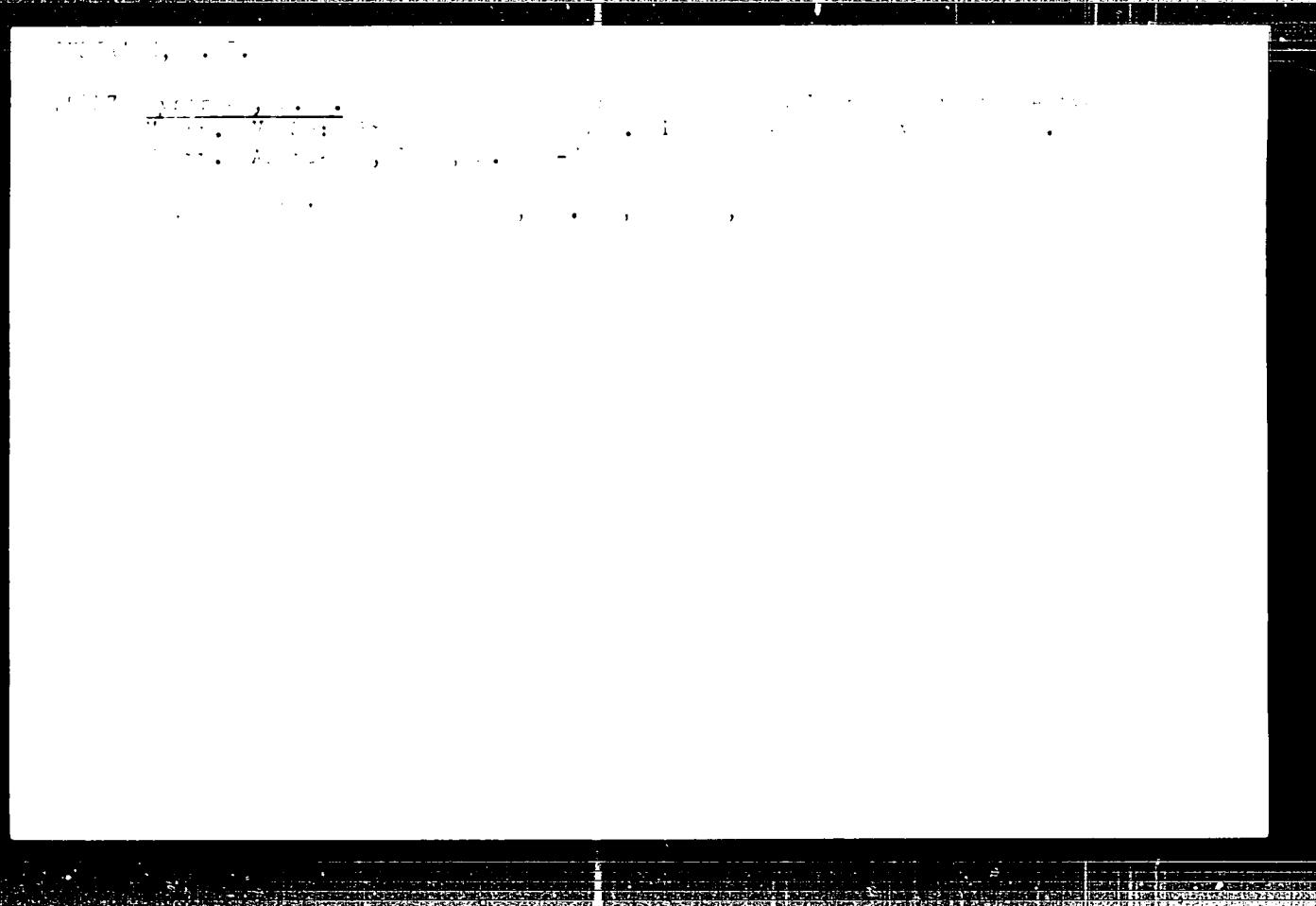
SO: Letopis' Zhurnal Statey, No. 30, Moscow, 1948

OYSTRAKH, D. G.

25942 Oystrakh, D. G. Gomedinamicheskiye advigi pri raneniyakh myagkikh
tkaney s zamedlennoy regeneratsiey. V sb: Problemy vosstanovit.
lecheniya invalidov Otechestv. voyny. Astrakhan', 1948, s. 214-19.

SO: Letopis' Zhurnal Statey, No. 30, Moscow, 1948

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

OYSTRAKH, D.G., professor; MOCHALOVA, A.O., dotsent (Astrakhan')

Pulmonary hemorrhage in periarteritis nodosa. Klin.med. 35 no.4:
113-116 Ap '57. (MLRA 10:7)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. D.G.Oystrakh)
i kafedry patologicheskoy anatomii (zav. - prof. M.S.Brunshteyn)
Astrakhanskogo meditsinskogo instituta (dir. -- dotsent S.V.Zekharov)
na base Pervoy oblastnoy klinicheskoy bol'nitay (glavnnyy vrach -
zasluzhennyy vrach RSFSR A.K.Belyayeva)
(**PERIARTERITIS NODOSA**, compl.
pulm. hemorrh.
(LUNGS, hemorrh.
caused by **periarteritis nodosa**)

OYSTRAKH, E.N.

New resin-turpentine products. Gidroliz.i lesokhim.prom. 13 no.5:
(MIRA 13:7)
31-32 '60.
(United States--Turpentine)
(United States--Gums and resins)

NEVZOROV, P.V., kand.ekon.nauk; OYSTRAKH, B.N.; VASIL'YEV, P.V., prof.;
VASIL'YEV, P.V., prof., otv.red.toms; BARDIN, I.P., akademik,
glavnnyy red. [deceased]; EHDEL'MAN, G.N., red.izd-vs; MAKUEI,
Ye.V., tekhn.red.

[Forestry and the lumber industry; proceedings of a conference]
Lesnoe khozisiatvo i lesnaya promyshlennost'; trudy konferentsii.
Moskva, Izd-vo Akad.nauk SSSR, 1960. 237 p. (MIRA 13:8)

1. Konferentsiya po razvitiyu proizvoditel'nykh sil Vostochnoy
Sibiri, 1958. 2. Institut lesa AN SSSR (for Nevzorov). 3. Institut
lesa AN SSSR, Moskva (for Vasil'yev).
(Forests and forestry--Congresses)
(Lumbering--Congresses)

— OXSTRAKH, E.N.

Rosin and turpentine industry of China. Gidroliz. i lesokhim.prom.
11 no. 8:27-29 ' 58. (MTR 11:12)
(China--Gums and resins)

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NORDSHTREM, E.K.; OYSTRAKH, B.H.

Methods of inspecting and calculating reserves of stump wood in the U.S.A.
Gidroliz. i lesokhim. prom. 10 no.8:29-30 '57. (MIRA 10:12)
(United States--Wood) (Gums and resins)

OYSTRAKH, E.N.

New process of refining tall oil in the U.S.A. Gidroliz.i
lesokhim.prom. 13 no.1:31-32 '60. (MIRA 13:5)
(United States--Tall oil)

BORDSTEDTEN, R.I.; OYSTRAKH, R.B.

Briquetting charcoal and charcoal fines. Gidroliz. i lesokhim. prom.
8 no. 6:30-31 '55. (MLRA 9:1)
(United States--Briquets (Fuel))

IVANOVSKIY, F.P., kand. tekhn. nauk, red.; FURMAN, M.S., doktor khim.nauk, red.; SAMARIN, B.I., red.; KICHEVSKIY, I.A., prof., doktor khim. nauk, red.; GOLUBEV, I.F., doktor tekhn.nauk, red.; KRASIL'SHCHIKOV, A.I., doktor khim. nauk, red.; KLEVKE, V.A., kand. tekhn. nauk, red.; LEVCHENKO, G.T., kand. khim. nauk, red.; GEL'PERIN, I.I., kand. tekhn. nauk, red.; OYSTRAKH, M.L., red.; KREYSBERG, A.Ya., red.; TSUKERMAN, A.M., red.; KOGAN, V.V., tekhn. red.

[Chemistry and technology of the products of organic synthesis; intermediate products for the synthesis of polyamides] Khimiia i tekhnologiya produktov organicheskogo sinteza; poluprodukty dlia sinteza poliamidov. Moskva, Goskhimizdat, 1963. 255 p.
(MIRA 17:3)

1. Moscow. Gosudarstvennyy nauchno-issledovatel'skiy i proyekt-nyy institut azotnoy promyshlennosti. 2. Zamestitel' direktora Gosudarstvennogo nauchno-issledovatel'skogo i proyektnogo instituta azotnoy promyshlennosti (for Ivanovskiy). 3. Zamestitel' direktora po nauchnoy chasti Gosudarstvennogo nauchno-issledovatel'skogo i proyektnogo instituta azotnoy promyshlennosti (for Furman). 4. Glavnyy inzhener Gosudarstvennogo nauchno-issledovatel'skogo i proyektnogo instituta azotnoy promyshlennosti (for Samarin).

DILAKTORSKIY, N., doktor geol.-mineral. nauk; OVT, L.[Ovt, L.];
BEL'CHEMKO, A.

Anticorrosive bitumen coatings for reinforcing bars in oil-shale ash concrete. Izv. AN Est. SSR. Ser. fiz. mat. i tekhn. nauk 11 no.4:296-302 '62. (MIRA 16:1)

1. Institut stroitel'stva i stroitel'nykh materialov AN Estoneskoy SSR.

(Corrosion and anticorrosives)
(Reinforced concrete)

DILAKTORSKIY, N.L., doktor geol.-miner.nauk; OYT, L.V. (Oit, L.J., inzh.

Corrosion of the reinforcement in shale-fly ash concretes. Trudy
NIIZHB no.22:54-60 '61. (MIRA 14:10)

1. Institut stroitel'stva i stroitel'nykh materialov AN Estonskoy
SSR. (Concrete reinforcement) (Steel--Corrosion)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R0012

8/081/63/000/002/032/086
B158/B166

AUTHORS: Dilaktorskiy, N., Oyt, L., Korrovits, Eh.

TITLE: Corrosion protection of reinforcement metal in steam-cured
shale-sol

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 2, 1963, 337, abstract
2K98 (In collection: Izdat. po str-vu, I, Tallin, 1961,
194-201 [summaries in Est. and Eng.])

TEXT: Corrosion of reinforcement metal in objects made of steam-cured
shale sol has been found to be of the continuous, non-uniform deep-pitted
type. After 4 years' exposure of samples in moist air, the corrosion
pitting reaches a maximum depth of 1.0 mm. Reinforcement metal in shale-sol
steam-cured concrete suffers from corrosion of a diminishing type. Addi-
tion of 2% NaNO₂ (on the amount of cement) halves the corrosion rate.

Replacing the shale-sol by 50% Portland cement gives almost complete
corrosion protection to the reinforcement metal. [Abstracter's note:
Complete translation.]

S/081/61/000/024/1427
B117/B147

AUTHORS Dilaktorskii, N L , Oyt, L V

TITLE Corrosion of the reinforcement in shale-ash concretes

PERIODICAL Referativnyy zhurnal. Khimiya, no. 24, 1961, 312. abstract
24I251 (Tr. N.-i in-ta betona i zhelezobetona Akad str va
arkhitekt. SSSR, no. 22, 1961, 54-60)

TEXT. The effect of the chemical and the mineralogical composition of shale-ash concretes upon the rate of reinforcement corrosion is described. It has been shown that the corrosion rate of a reinforcement bar in the presence of Cl⁻, SO₄²⁻, and S²⁻ ions is 2-5 times higher than in their absence. The highest corrosion rate is displayed by autoclave shale ash concretes. To reduce the rate of reinforcement corrosion, it is recommended that reinforcement bars should be coated with a layer of ≥ 1 mm thickness with the following composition: 100 parts by weight of Portland cement, 40 parts by weight of NaNO₂, 5 parts by weight of casein, and 33-35 parts by weight of water [Abstracter's note Complete translation] Card 1/1

OYVIN, I.A.; MILASH, G.P.; SHUBICH, M.G.; VENGLINSKAYA, Ye.A.;
LUTSENKO, N.M.; MUKHAMEDZHEANOV, I.A.; TOKAREV, O.Yu.;
SHCHEGEL', S.M.; YAGODKINA, Ye.G. (Krasnodar)

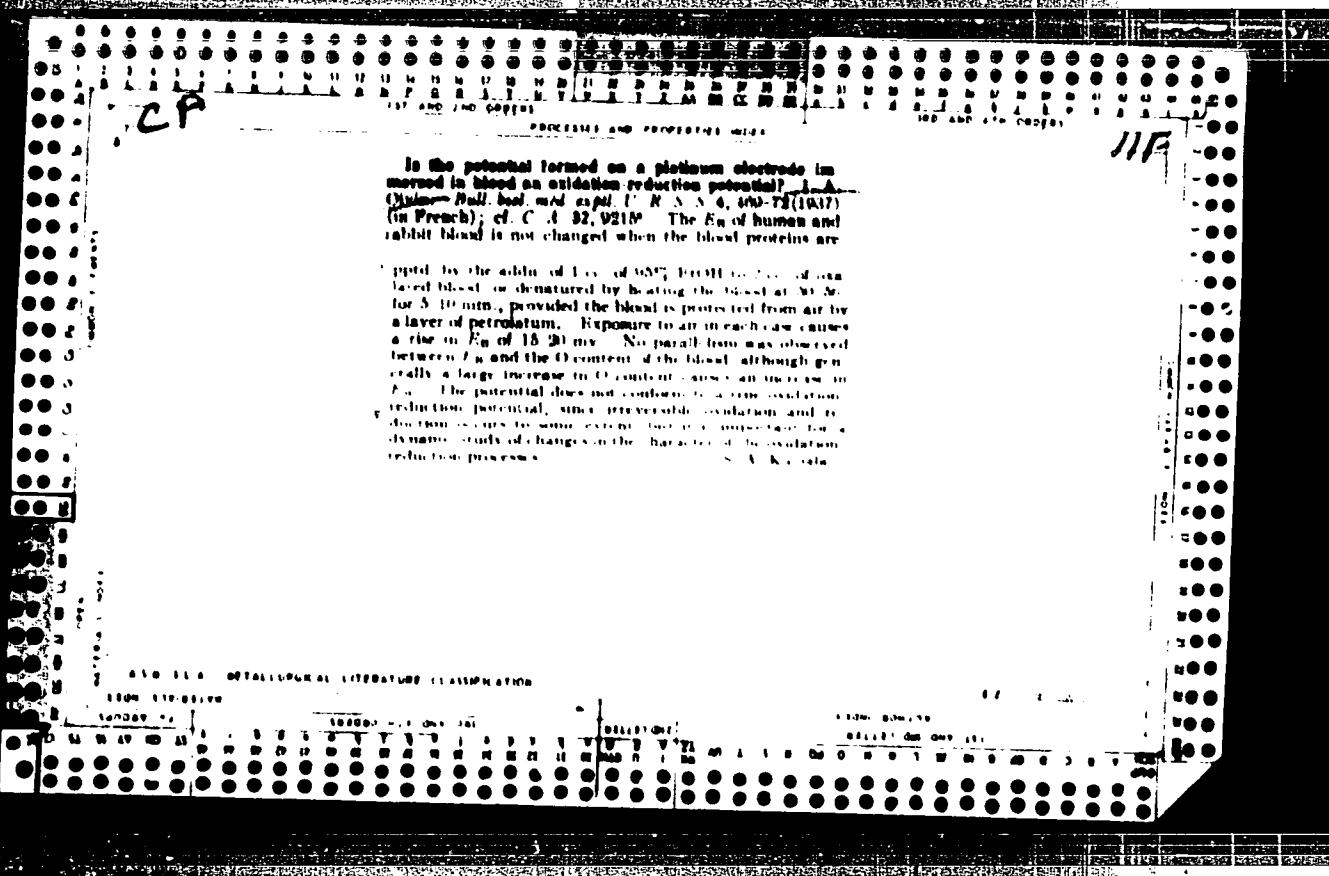
Relation of the development of inflammation to the state of
the blood coagulation system. Arkh. pat. 26 no.2:63-68 '54.
(MIRA 17.8)

1. Kafedra patologicheskoy fiziologii (zav. - prof. I.A. Oyvin),
kafedra patologicheskoy anatomii (zav. - dotsent G.P. Milash)
i kafedra gistologii (zav. - dotsent M.G. Shubich) Kubanskogo
meditsinskogo instituta.

The oxidation-reduction potential (E_h) of the blood of A. Chivin, Bull. Soc. med. expér. Russ. S. 3, 102-4 (1930); *Biofizika* 1930, 1, 119; cf. A. A. 32, 921-2 (1931). The value of the oxidation-reduction potential, E_h , in the blood gave the following average values: (1) human, venous blood 211 ± 0.8 my., (2) dogs, circulating blood 202 ± 1.0 my., in the presence of the tissue 107 my., whole blood 210 ± 1.0 my., and plasma 229 ± 8 my. The value of E_h was reduced (up to a max. of 150 my.) by hemolysis of whole blood (saponin, distilled water), in experimentally produced diabetes, in HCN poisoning, in long-continued asphyxia, pneumonia, heterogeneous blood transfusion, and anaphylactic shock (rabbits). On the other hand, the value of E_h increased up to a max. of 230 my. following administration of insulin (diabetes, dogs from which the pancreas had been removed), in cases of methemoglobin formation, in marsh jaundice, and following the addition of bile to the blood (chlorate-poisoned dogs). No change in the value of E_h was detected in cases of CO

poisoning, hemorrage, consecutive hydremia, narcosis (morphine, ether + CHCl_3), poisoning with diphenoxylate, alkalosis and acidosis (pH 6.8), peptone shock, exposure to ultraviolet radiation, alimentary hyperglycemia, mono bromacetate poisoning, or following injection of adrenalin, corticulin and glucose. Apparently, Eu is dead, essentially by the intensity of the transformation of carbohydrates in the organism.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



CP

116

The systems determining the value of the E_g of the blood. I. A. Ognio. Bull Soc med expd U.R.S.S. 6, 473-479 (1937) in French. C.I.C. 4-32, 9219 - Pancreatic diabetes or pancreatectomy in dogs, much asphyxia and HCN passing cause a decrease in the E_g of the blood. Pneumonia before the asphyxia and the injection of BrCH_2COOH into rabbits increase E_g , while morphine injection, ether narcosis, anaesthesia as a result of HCl injection, alimentary hypertension and adrenaline injection cause no change in E_g . All of these phenomena cause an increase in blood sugar. The injection of insulin into normal human beings and animals and into those suffering from diabetes causes a rise in E_g , while corticulin injection does not change the E_g . A decrease in blood sugar is observed in these cases, so there is no obvious correlation between blood sugar and E_g . Diseases causing variations in the haemoglobin content of the blood show no parallel changes in E_g . A decrease in acetone bodies in the blood generally causes an increase in E_g , while keto-acetonemia is characterized by a low E_g . The stability of E_g as compared with the stability of the level of acetone bodies in the blood indicates, however, that the potential is fundamentally an oxidation-reduction potential which can be influenced by acetone bodies. The 2 forms of glutathione are not responsible for the E_g , since changes in glutathione are without influence on the E_g . It is suggested that ferritin, possibly in connection with hemoglobin, is a fundamental constituent of the blood oxidation-reduction system. Hemolysis provoked in dogs by the injection of 500 cc. of distilled H_2O causes a reduction

in the E_g of 2 mm. in 40-60 min., the maximum reduction corresponding with the maximum reduction in the no. of erythrocytes. The injection of 500 cc. of physal. Salin. has no effect on E_g . The hemoglobin-methemoglobin system seems to affect E_g in pathological cases. S. A. K.

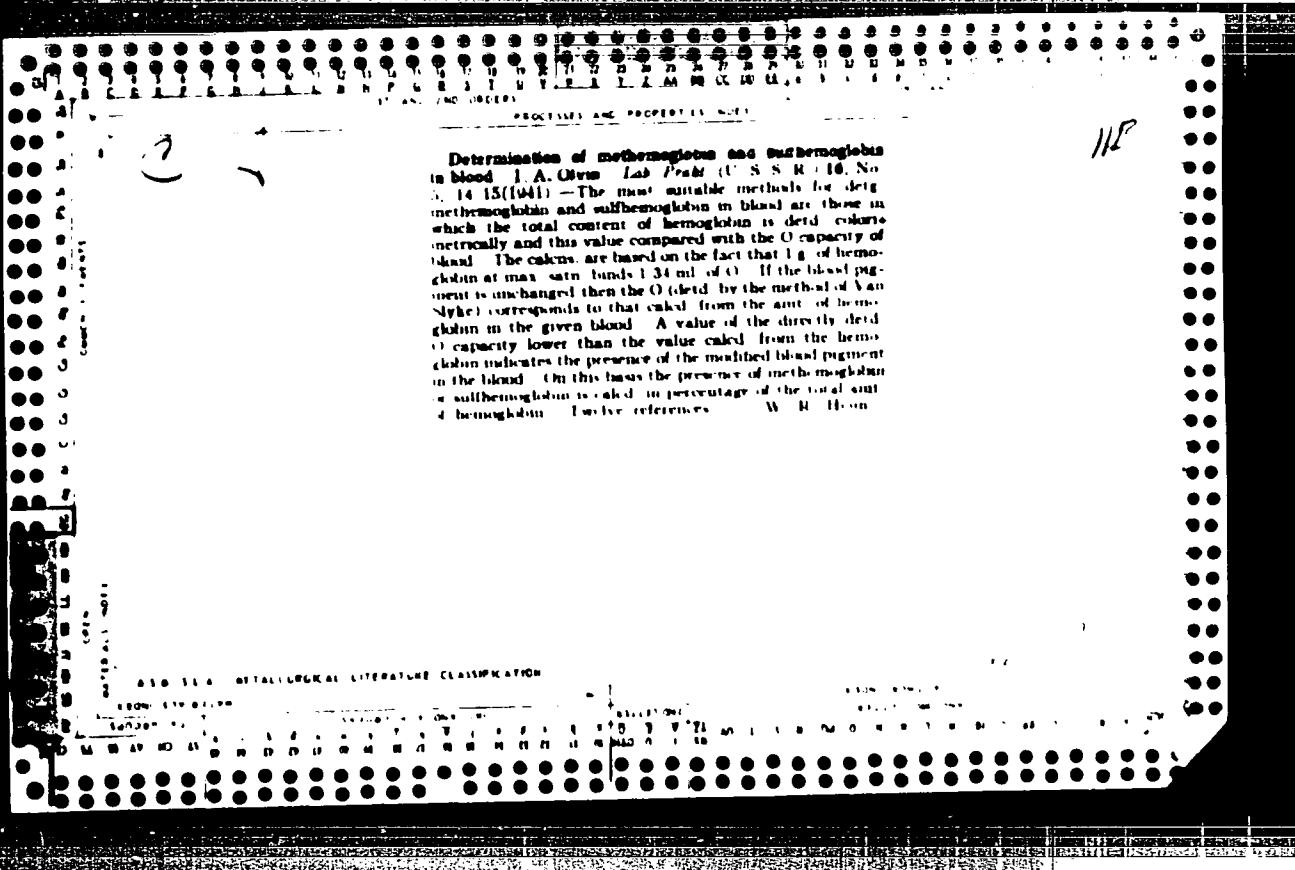
114

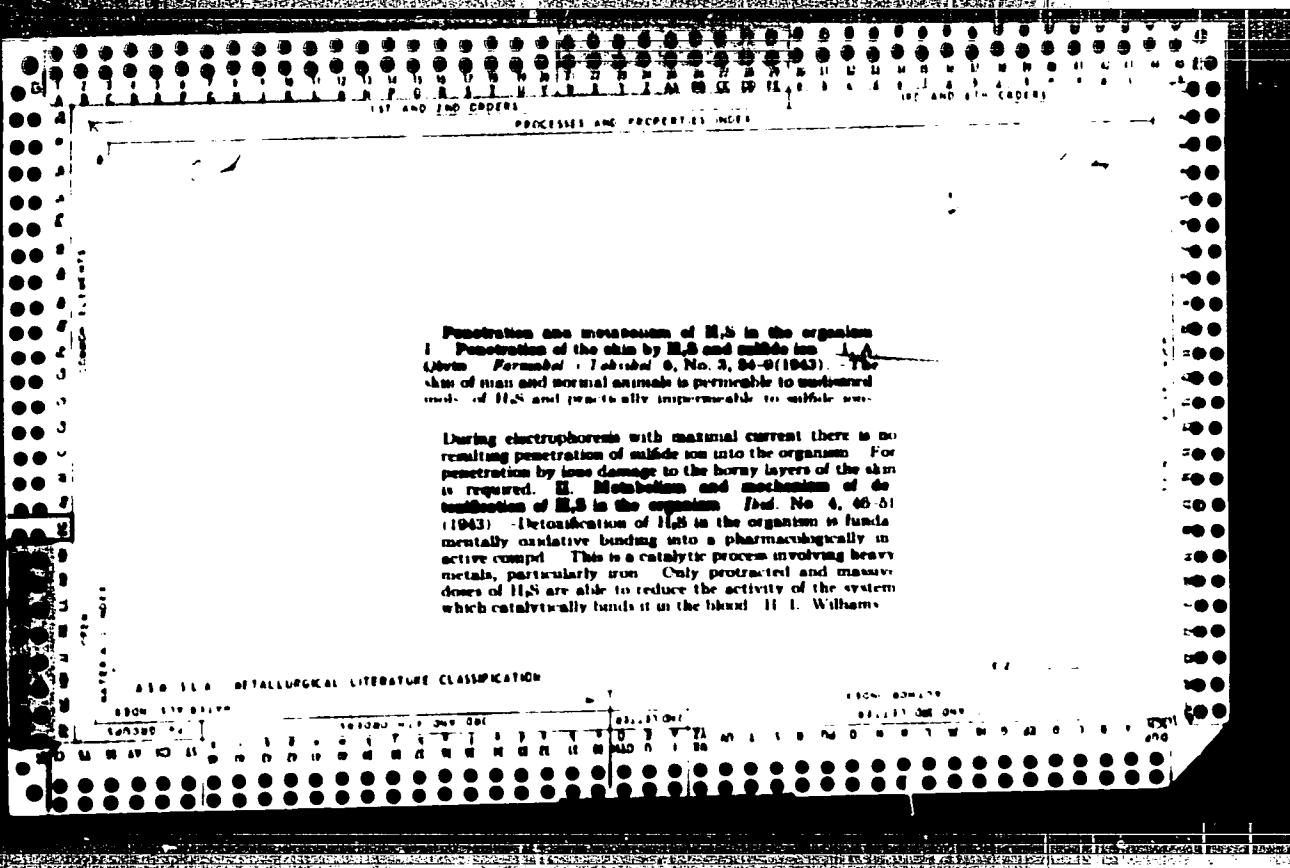
Mechanism of the antidotal action of methemoglobin in hydrogen sulfide poisoning. J. A. Orris and A. I. Corne.
Formed. J. Toxicol. J., No. 6, 1972 (1967) — Dogs given 100 times the lethal dose of NaHS do not die if also given 0.15 g. NaNO₂ per kg. of body wt. intravenously. A prompt rise in methemoglobin content follows the NaNO₂ injection.

The antidotal action of methemoglobin is exerted, not as an acceptor (no sulfmethemoglobin could be detected spectrophotographically), but as an oxidizing agent.
Julian F. Smith

118

A new method for studying tissue permeability. The permeability of the skin to hydrogen sulfide. I. A. Ulyan and A. I. Sushova. *Bull. biol. med. expil. U.R.S.S.* 9, 316-320 (1940) (in German). Cf. C.A. 34, 60867. Tissue permeability was measured by means of the skin potential. A Ag electrode was placed under the skin of rabbits by means of a hollow Pt injection needle holding a 0.3-mm Ag wire, after which the needle is removed. A gauze bandage on the skin, soot. with KCl soln., is connected to a carbon electrode, and a potentiometer is used to measure the current. A glass vessel 3 cm in diam. with a hole at the bottom is placed against the skin adjacent to the Ag electrode to hold the test solns. or gauze against the skin. The normal potential of the skin of rabbits is -80-120 mV. A concn. of 20 mg/l of H₂S is necessary to cause a reduction in E_g of 20-30 mV. Circulation of CO₂ at atm pressure over the skin for 8 min caused no change in E_g. The skin of rabbits and human subjects is readily permeable to undissolved H₂S, but is practically impermeable to S. The amt. of H₂S necessary to permeate the skin is proportional to the concn. of undissolved H₂S in the test soln. Gaseous H₂S causes the greatest drop in E_g. S. A. Kartash.



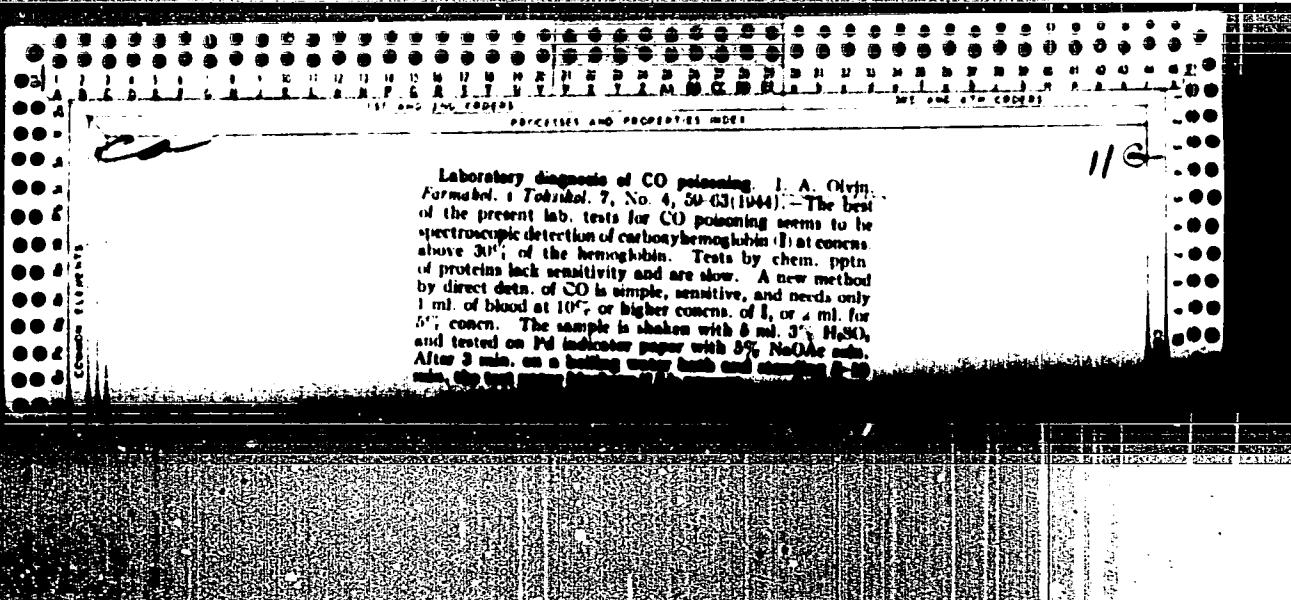


CA

11A

Effect of HgS on tissue respiration using Warburg's method. L. A. Orton and V. I. Orton. *Proceedings Royal Society, B, No. 8, 1940* (1943). Three fundamental difficulties arose during the study of the effect of HgS on tissue respiration by Warburg's method: absorption of HgS by the alkali in the side-arm vessel, rapid fall in the concn. of HgS in the fluid under investigation owing to oxidation, and significant (63%) dissociation of HgS at pH 7.0 in Ringer soln. HgS in concns. of 0.8×10^{-4} to 2×10^{-4} M causes a small (17%) decrease in the respiration of liver slices. Lower concns. show no effect. Although a more accurate method is necessary to study the effects of HgS, particularly in lower concns., the results indicate no certain, or only a slight, effect in concns. from 2×10^{-4} M to 0.8×10^{-4} M.

H. L. Williams



PACIFIC COAST MEDICAL INSTITUTE
RESEARCH AND EDUCATION CENTER

CG

New method for the determination of oxygen in the blood. D. V. Tittelbaum and L. A. Abelson. *Biochemistry* 10, 477-482 (1945) (English summary). To each of three tubes A, B, and C, add 10 ml. of distilled water, 1 ml. of 14% NaCl, and then to each tube add 1 ml. of a freshly prepared solution of 50 mg. Na₂S₂O₃ in 10 ml. of water. The contents of tubes A, B, and C are, respectively, titrated with 0.5% solution of methylene blue to a permanent blue color. The amount of O₂ in the blood, in ml. %, is calculated from the formula $A = \frac{V}{(a + b)} (2 - b + 0.1)$, where a, b, and V represent the amount of methylene blue used in the titration of tubes A, B, and C. 0.1 is a correction, since an excess of methylene blue is necessary for tube B to reach the end point. This is multiplied by 1000. The ml. of O₂ in ml. equals to 1 ml. of methylene blue. A is equal to 15 at 0.1, 16 at 1%, and 17 at 10%. The values of a and b should amount to 1.0 and 0.1, respectively. A titration can be made in 5 minutes - the error does not exceed 0.5% and 1 ml. of O₂. The method is also suitable for the determination of the oxygen capacity of the blood.

H. Prestley

Theory of acute hydrogen sulfide poisoning. V. 6
Oliver, A. J., Gamma, and A. L. Oliver. 1947.
Biochem. Med. 10, No. 6, 44-47 (1947).
The pathogenesis of H₂S poisoning is not identical with that of HCN as presented by Reddish, Karr, and others. The toxic action is not as markedly affected by H₂S as by HCN. The mechanism of death is not known, but the appearance of a short lived increase of oxygen uptake in blood during acute H₂S poisoning suggests that the initial pressure of tissue respiration force is too great in view of total pressure. The same effect is observed by administration of carbon monoxide. The direct action of the H₂S molecule on the central nervous system is the cause of death. H. P. Bailey

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OYVIN, I.A.

Priority of Russian research in the study of skin permeability.
Vest. vener. no.5:50-51 Sept-Oct 1950. (CLML 20:1)

1. Of the Pathophysiological Department (Head -- Prof. I. A. Oyvin), Central Skin-Venereological Institute (Director -- Candidate Medical Sciences N. M. Turanov) of the Ministry of Public Health USSR.

OYVIN, I.A.; OYVIN, V.I.; SOMIN, V.I.

Electrophoretic analysis of rabbit serum following protein sensitization. Vop.med.khim. 3: 129-137 '51. (MIRA 11 4)

1. Patofiziologicheskiy otdel TSentral'nogo kozhno-venerologicheskogo instituta Ministerstva zdravookhraneniya SSSR, Moskva.
(ELECTROPHORESIS) (SERUM)

OYVIN, I.A.

USER/Medicine - Infectious Diseases Jul/Aug 51

"Electrophoretic Investigations of Blood Serum Proteins in Infectious Hepatitis (Bothkin's Disease)", I. A. Oyvin, M. Ya. Besok, V. I. Oyvin, Pathophysiol Dept, Cen Dermato Venereol Inst, Min of Pub Health USSR and Therapeutic Hosp of Frunze District of Moscow

"Terap Arkad' Vol XIII, No 4, pp 37-40

Electrophoretic investigation of blood serum in Bothkin's disease shows regular lowering of albumin level and lowering of the albumin-globulin coeff. There is as a rule increase of the

192T85

USER/Medicine - Infectious Diseases Jul/Aug 51
(Contd)

Fraction of beta- and gamma-globulins as compared with the serum of healthy persons. The rates of movement of fractions in electrophoresis of the serum of patients with infectious hepatitis show values which do not differ from the normal.

192T85

PA 192T85

CA

118

Significance of electrophoretic studies of proteins of blood serum in clinical internal diseases. I. A. Ovchinnikov, M. V. Baskov, and V. I. Ovchin (Ministry Health, Moscow, All-Union Med. (U.S.S.R.) 29, No. 1, 52-56 (1951). — The electrophoretic method was tested successfully for analysis of blood serum-protein fractions. As normal values were albumin 50%, α_1 -globulin 3.1%, α_2 -globulin 8.8%, β -globulin 14.4% and γ -globulin 10.5%. In jaundice the γ -globulin fraction rises in the majority of cases, while obstructive jaundice does not appear to cause such a rise. In acute nephritis the albumin drops and the albumin/globulin ratio declines with a rise in γ and β -globulins. In pneumonia a decline of albumin and rise in α_1 and α_2 -globulins is noted. In myeloma a most drastic rise in γ -globulin occurs with corresponding declines in all other fractions, as high as 50% γ -globulin was found. In cardiovascular diseases, the albumin declines and the γ -globulin rises, a similar result is seen in many cardiovascular diseases especially in rheumatic forms of ailments, in which α_1 and α_2 -globulin fractions usually rise. Liver infections characteristically drop the albumin level and cause a rise in γ and β -globulins. G. M. K.

- C. H. physiologist Dept

OYVIN, I. A.

(3)

Quantitative assay of antiphlogistic effects. I. A. Oyvin
and K. N. Monakova (Avitacenna Med. Inst., Stalinabad).
Permeabil. i Tektikol. 16, No. 6, 50-1 (1953).—Rabbits were
given 1% trypan blue soln. in 0.9% aq. NaCl, 2 ml./kg.
intravenously, and a spot of bare skin was irritated with
xylene; the inflammation was clearly marked in blue, ap-
pearing in 2.6 to 6 min., or 10-24 min. under ether narcosis.
Local anesthesia with procaine, by ionophoresis, doubled or
trebled the time of appearance. Julian P. Smith

OYVIN, I.A.; SMOLICHEV, Ye.P.

Rate of the renewal of proteins in blood serum; electrophoretic studies.
Dekl. AN Tadzh.SSR no.12:71-76 '54. (MIRA 9:9)

1.Kafedra patologicheskoy fiziology Stalinabadskogo gosudarstvennogo
meditsinskogo instituta imeni Avitsenny.
(BLOOD PROTEINS)

OYVIN, I.A.

Mechanism of the development of skin sensitization to blood pro-
teins. Medich. zhur. 24 no.6:14-22 '54. (MLRA 8:7)

1. Stalinabadskiy medichniy institut.
(ALLERGY, experimental,
Arthus phenomenon)

OYVIN, I.A.

Biological significance of inflammatory edema. Bicl.eksp.biol.
i med. 37 no.2:29-32 F '54. (MLRA 7:6)

1. Iz kafedry patologicheskoy fisiologii (sav. prof. I.A.Oyvin)
Meditinskogo instituta imeni Avitsenny (Dr. chlen-korr. AN
Tadzhikskoy SSR Ya.A.Rakhimov), Stalinabad.

(INFLAMMATION, experimental,

*inflamm. edema)

(EDEMA, experimental,

*inflamm. edema)

OYVIN, I.A.

Effect of protein sensitization on the chemistry of the skin and
its relation to nonspecific stimuli. Biul.eksp. biol. i med. 38 no.9:
56-58 S '54. (MIRA 7:12)

1. Iz kafedry patologicheskoy fiziology (sav. prof. I.A.Oyvin)
Stalinabadskogo meditsinskogo instituta imeni Avitsenny (dir. chlen-
korrespondent Akademii nauk Tadzhikskoy SSR Ya.A.Bakhimov)

(ALLERGY, experimental,

eff. of horse serum on skin water metab. in rabbits)

(SKIN, metabolism,

water, eff. of horse serum allergy in rabbits)

(WATER, metabolism,

skin, eff. of horse serum allergy in rabbits)

USSR/Medicine - Physiology

Card 1/1 Pub. 22 - 54/56

Authors : Oyvin, I. A., and Smolichev, E. P.

Title : Permeability of the human skin for carbonate and bicarbonate ions

Periodical : Dok. AN SSSR 99/5, 869-872, Dec 11, 1954

Abstract : The results derived in studying the permeability of the human skin for carbonate and bicarbonate ions are analyzed. The method employed in measuring the concentration of the solution, poured on the surface of the skin, is explained. The changes in the concentration of the matter in the solution were immediately recorded by a counter placed over the surface of the skin saturated with a solution containing radioactive isotopes C¹⁴. A reduction in the number of atomic decompositions recorded by the counter indicates a reduction in the concentration of the matter in the solution thus indicating that it had penetrated into the skin. Five references: 3-USSR and 2-German (1866-1949). Graphs; drawings.

Institution:

Presented by: Academician A. I. Oparin, October 15, 1954

OYVIN, I.A.

✓ 805. Investigation of disturbances of certain liver functions by means of the thymol-veronal test. I. A. Ovin, V. I. Ovin, and V. A. Tikhonov. *Vop. med. Khim.*, 1955, 1, 296-299; *Referat. Zn. Biol.*, 1956, Abstr. No. 73975.—In rabbits the liver was affected by administering CCl_4 . The composition of the serum proteins was determined by electrophoresis, and the total protein content of the serum by refractometry. By means of the photocolorimeter the turbidity produced in the serum in the thymol-veronal test was measured. In toxic hepatitis in rabbits the albumin content was reduced, and the quant. of γ -globulins, and particularly of β -globulins was increased. The thymol-veronal test was always positive in these cases. This was also observed in human subjects suffering from infective hepatitis. The positive is, apparently, determined by the appearance in the serum of pathological lipoprotein complexes extractable by ether and migrating during electrophoresis with the γ -globulins. (Russian) T. R. PARSONS

3

GYVIN, I.A.; GUNINA, A.I.; TIKHONRAVOV, V.A.

Mechanism of the physiological action of hydrogen sulfide
(Matsesta) water. Vop.kur.fizioter. i lech.fiz.kul't.
no.2:13-20 Ap-Je '55; (MLRA 8:8)

1. Iz biokhimicheskoy laboratorii Bal'neologicheskogo instituta imeni Stalina i eksperimental'noy laboratorii Tsentral'nogo sanatoria imeni Voroshilova (Sochi)
(MINERAL WATERS, effects,
hydrogen sulfide water, mechanism of physiol.
action)

OTWIN, I.A., professor.

First conference of pathophysiology of Central Asia and
Kazakhstan. Arkh.put. 17 no.3:83-87 J1-S '55. (MLRA 8:12)
(PHYSIOLOGY, PATHOLOGICAL)

OYVIN, I.A.

USSR

✓ The permeability of human skin to sodium carbonate and sodium bicarbonate solutions (investigation with C isotopes). I. A. Olyvin and E. P. Semikher (Avitomaz Med. Inst., Stalinoabad). *Klin. Med. (U.S.S.R.)* 23, No. 2, 96-9 (1948).—Human skin is practically impermeable to Na₂CO₃ and NaHCO₃ salts. Prescribing soda baths as means of alkalinizing the organism is groundless. A. S. Mirkin.

OYVIN, I.A.; SERGEYEV, Yu.V.,

Mechanism of sensitization and of antibody formation. Biul.
eksp.biol. i med. 40 no.9:51-54 S '55. (MLRA 8:12)

1. Iz kafedry patologicheskoy fiziologii (zav.-prof. I.A.
Oivin) Stalinabadskogo meditsinskogo instituta imeni Avtsevny
(dir.-chlen-korrespondent AN Tadzhikskoy SSR Ya A. Rakhimov)
(ALLERGY, experimental,
mechanism of sensitization & antibody form)
(ANTIGENS AND ANTIBODIES,
antibody form, mechanism)

CVIN I. D. 24 Dec. 12 Vol. 12/2 Derma-Venero. Feb 53

246. SOME METHODS OF TESTING SKIN FUNCTION (Russian text) - OVIN I. A. - TRUD STALIN MED. INST. 1956, 21/3 (195-230)

The results are reported of a 10-year study of the value of skin function tests. Considerable attention is given to the errors of measurement in the McClure and Aldridge, Kavetskii-Leshchinskii and Bogdanova tests. Methods of statistical treatment of the results of quantitative tests of skin function are described. The author criticizes the interpretation of the Kavetskii-Leshchinskii and McClure and Aldridge tests and explains the mechanism of these tests. He discusses the importance of the time factor in estimating the diffusion factor (hyaluronidase) by the spread of a dye through the skin. The erroneousness of the Grower method of pathergometry, of the Zaleiskii method (detection of substances in the blood which raise capillary permeability) and of the study of the chemical composition of skin by means of dialysis is proved. The communication also describes a number of methods for the study of skin capillaries, skin permeability to bicarbonate and carbonate ions and to sodium and bromide ions as well as the principles underlying the determination of carbon-dioxide excretion by the skin. (S)

OYVIN, I.A. (Krasnodar)

Modern concepts of the mechanism of antibody formation. Pat.
fisiol. i eksp. terap. 2 no. 4:3-9 Jl-Ag '58 (MIRA 11:12)

1. Is kafedry patologicheskoy fisiologii (zav. - prof. I.A. Oyvin)
Kubanskogo meditsinskogo instituta.
(ANTIBODIES,
form., mechanisms, review (Rus))

OYVIN, I.A. (Krasnodar)

Results of the use of radioactive isotopes of study of capillary blood and lymph flow. Klin.med. 36 no.4:114-119 Ap'58 (MIRA 11:5)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. I.A. Oyvin)
Kubanskogo meditsinskogo instituta.

(CAPILLARIES, physiol.
capillary flow, determ. with isotopes (Rus))
(LYMPHATIC SYSTEM, physiol.
lymph flow, determ. with isotopes (Rus))
(ISOTOPES,
determ. of capillary blood & lymph flow (Rus))

OYVIN, I.A. (Krasnodar)

Mechanisms of capillary permeability. Usp.sovr.biol. 45 no.2:162-174
Mr-Ap '59 (MIRA 11:6)
(CAPILLARY PERMEABILITY, physiology
review (Rus))

OYVIN, I.A.; VENGLINSKAYA, Ye.A.; SHCHEGOLEV, S.M. (Krasnodar)

Effect of adenosinetriphosphoric acid on cutaneous capillary permeability: method for the determination of local disorders of capillary permeability. Pat. fiziol. i eksp. terap. 3 no.3:33-38 My-Je '59.

(MIRA 12:7)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. I.A. Oyvin)
Kubanskogo meditsinskogo instituta imeni Krasnoy Armii.

(CAPILLARY PERMEABILITY, eff. of drugs on,

ATP, trypane blue test in determ. of localized cutaneous permeability discrd. (Rus))

(ADENYLIC ACID, eff.

on capillary permeability, trypane blue test in determ.
of localized cutaneous permeability discrd. (Rus))

OYVIN, I.A. (Krasnodar)

Changes in vascular permeability in shock. Arkh.pat. 21 no.4:22-28
'59. (MIRA 17:12)

1. Iz kafedry patologicheskoy fiziologii Kubanskogo meditsinskogo
instituta.

(CAPILLARY PERMEABILITY,
in exper. shock (Rus))
(SHOCK, exper.
capillary permeability (Rus))

OYVIN, I.A.; SERGEYEV, Yu.V.

Reflex mechanism of antibody formation. Zmir. mikrobiol., epidem.
i immn. 27 no.3:98-102 Mr' 56. (MIRA 9:7)
(ANTIGENS AND ANTIBODIES,
antibody form., reflex mechanism (Rus))

OYVIN, I.A.; BALULIA, V.F.

Significance of the fibrinolytic system of the blood. Biol.
eksp. biol. i med. '4 no.9:35-39 S '62. (MJRA 17:9)

I. Iz kafedry patologicheskoy fiziologii (zav.- prof. I.A.
Oyvin) Krasnodarskogo meditsinskogo instituta, Krasnodar.
Predstavlena deystvitel'nym chленом AMN SSSR A.V. Lebedinskim.

OTVIN, A. S., et al; Leningrad, U.S.S.R.

Szwaliczko phenomenon and its importance in pathology. Int. fiziol. i ekspr. terap. 9 no.4:14-26. MIR 1981.

1. otsel radiatsionnyj patofiziologij Instituta meditsinskoy radio-
logii AN SSSR, Sbinsk.

OYVIN, I.A.; KIR'YAKOV, M.A.; KOROLEVA, L.V.; ROMANOVSKAYA, L.L.;
SVESHNIKOV, A.A.; TOKAREV, O.Yu.; UKLONSKAYA, L.I.

Radiometric study of problems of the pathogenesis and
experimental therapy of inflammatory edemas. Vest. AMN
SSSR 20 no.9.87-93 165. (MIRA 1987)

I. Institut meditsinskoy radiologii AMN SSSR, Obninsk.

OYVIN, I.A. (Obninsk)

Pathogenesis of early manifestations of acute inflammation.
Arkh. pat. 27 no.3:3-17 '65. (MIHA 18:5)

1. Otdel radiatsionnoy patologicheskoy fiziologii Instituta
meditsinskoy radiologii AMN SSSR.

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(100-383-11)

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CIA-RDP86-00513R001238

OIVIN, I.A.; BALUDA, V.P.; SHEGEL, S.M.; TOKAREV, O.Y.; VENGLINSKAYA, E.A.
YAGODKINA, E.G.

Anticoagulatn and antiphlogistic properties of phlogodym
(neodymium pyrocatechol disulphonate). Acta physiol. acad.
sci. Hung. 24 no.3:373-379 '64

1. Department of Pathological Physiology, Kuban Medical Institute
Krasnodar, USSR.

OYVIN, I.A.; BALUDA, V.P.; SHEGEL, S.M.; TOKAREV, O.Y.; VENGLINSKAYA, E.A.;
YAGODKINA, E.G.

Anticoagulant and antiphlogistic properties of phlogodynam
(neodymium pyrotechol disulphonate). Acta physiol. acad. sci.
Hung. 24 no. 3:373-379 '64

1. Department of Pathological physiology, Kuban Medica. Institute,
Krasnodar, USSR.

*

OYVIN, I.A. prof.; BALUDA, V.P. kand.med.nauk

"Pharmacotherapy in disorders of the coagulation system of the blood"
Reviewed by I.A.Civin, V.P.Baluda. Biul. Uch. med. sov. 2 no. 1
1961. Ag '61. (MI A 14:1)

(BLOOD--COAGULATION)

OIVIN, I.A.

Pathogenesis and classification of dysproteinemia. Klin.med.
38 no.7:13-24 '60. (MIRA 13:12)
(BLOOD PROTEINS)

6/24/2001 10:21:21

AUTHOR: Ovchinnikov, N.L. Candidate of Technical Sciences

TITLE: The design of the main thermal-mechanical equipment for the Main Building of a Power Station with initial steam conditions of 240 atm and 600° (Projective design of the main thermal-mechanical equipment for the main building of a power station with initial steam conditions of 240 atm and 600°)

PERIODICAL: Repl.elektrenergetika, 1979, N 7, pp 20-22 (USSR)

ABSTRACT: The Iep. elektroprojekt Institute has worked out the technical problems in the design of new types of main thermal-mechanical equipment that is to be used in power stations with initial steam conditions of 240 atm and 600°. These problems were considered in detail by an experts' commission and at a session of the Technical Council of the Ministry of Electric Power Stations which included numerous interested parties. This article is a general review of the types of thermal and mechanical equipment that will be used in the newly constructed power stations. In considering the steam conditions of 240 atm and 600° the following main conclusions were reached. A steam temperature of 600° necessitates the use of

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The Design of the Main Thermal-Mechanical Equipment for the Main Building of a Power Station * : Initial Steam Conditions of 240 atm and 580°C

austenitic steels for steam pipes and live steam fittings and for a number of parts of the boilers and turbines. This makes power stations expensive and somewhat limits operating flexibility. The use of a steam temperature of 600°C at the turbine stop valve was justified in 1955 when the upper limit of use of pearlitic steels was 535°C. At that time the change over from 130 atm and 535°C to 220 atm and 600°C gave a fuel economy of about 5%. At the present time pearlitic steels can operate at steam temperatures of up to 560°C so that the gain in efficiency from using steam conditions of 220 atm and 600°C is only 3.5%. In the near future it will be possible to raise the turbine stop valve steam temperature to 580°C without using austenitic steels in the pipework or turbine. Investigations made by the All-Union Thermo-Technical Institute on processes in the boiler in the critical pressure region show that there is some doubt about the reliable operation

Card 2/7

W/90-59-4-4/21

The Design of the Main Thermal Mechanical Equipment for the Main Building of a Power Station with Initial Steam Conditions of 240 atm and 580°C

of boilers under variable operating conditions when the turbine stop valve pressure is 220 atm. These effects are not observed with a steam pressure of about 250 atm. It was, therefore, advisable to increase the turbine stop valve pressure to 240 atm. Accordingly, it is now considered advisable to set the turbine stop valve steam conditions at 240 atm and 580°C. These steam conditions will give the same efficiency as 220 atm and 600°C whilst the turbine sets are cheaper, more reliable and more flexible in operation. It is proposed to use these steam conditions in condensing turbines (type SVK) of 300 and 600 MW and in back pressure turbines (type SVR) of 50 MW. Turbines type SVK-300 and SVK 600 will have one reheat to 565°C at the turbine at a pressure of 40 atm. Other conditions that it is proposed to use are listed, such as the pass-out and back pressures and feed water temperatures. The proposed performance characteristics of the turbines are given. By using steam conditions of 240 atm and 580°C and by increasing the output of the sets to 300 and 600 MW

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The Design of the Main Thermal-Mechanical Equipment for the Main Building of a Power Station with Initial Steam Conditions of 240 atm and 580°C

the primary superheat temperature is maintained at 585 + 5°C and the reheat temperature at 570 + 5°C. Reheat and superheat temperatures should be controlled by injection only during periods of adjustment or emergency operation. There should be automatic control of combustion, superheat and reheat temperature, fuel preparation including fuel oil burners and other matters. Feed water conditions are briefly mentioned. The main feed pumps will be for steam turbine drive and will have outputs of 2,250; 1,130 and 570 cu m/hour against a pressure of 310 atm. Electrically driven pumps with outputs of 1,130; 570 and 370 cu m/hour operating against a pressure of 290 atm will be used as stand-by and starting pumps. Thus the main feed pump will have turbine drive and its output will correspond to 100% of the set power whilst the reserve pump, with electric drive, will be suitable for 50% power output. The main equipment for fuel drying and pulverising is then described. Centralised drying equipment will be provided for brown coal with water contents of more than 10%.

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107/46 7/ 4-4/1]

The Design of the Main Thermal Mechanical Equipment for the Main Building of a Power Station with Initial Steam Conditions of 240 atm and 580°C

Steam driers will be the main type used. A number of details are given about the proposed construction of driers. For fuel pulverisation it is proposed to design an unventilated ball mill with an output of 100 tons/hour on dry coal. Other types of mill that will be used in particular cases are described. They include ventilated drum-type ball mills and high speed hammer shaft type mills of a new type. As a result of the design of new types of equipment for 240 atm and 580°C it will be possible to increase the thermal efficiency of power stations by about 4-5% as compared with steam conditions of 130 atm and 565°C. This will make the construction of the power stations more expensive by about 40 roubles per kilowatt. Data concerning the influence of the increase in output of unit type power stations on their specific cost is given in Table 1. This shows that it is best to use unit type sets with a single shaft at 300 MW and two shafts at

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SOV/96-59-4-4/21

The Design of the Main Thermal-Mechanical Equipment for the Main Building of a Power Station with Initial Steam Conditions of 240 atm and 580°C

600 MW for the large power systems of the European part of the USSR, the Ural and Siberia. Further increase in steam conditions to 400 atm and 700°C with two reheat stages would only increase the thermal efficiency by a further 1.6% and therefore, at the present time, the question of raising the steam conditions above 300 atm and 650°C should be considered only from a research and development viewpoint. There are 4 tables.

ASSOCIATION: Teploelektroprojekt

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OYVIN, N.L., kand.tekhn.nauk

Designing basic thermal and mechanical equipment for the main building
of an electric power plant with initial steam parameters of 240 atm.
and 580°C. Teploenergetika 6 no.4:20-27 Ap '59. (MIRA 12:3)

1. Teploelektroprojekt.
(Electric power plants--Equipment and supplies)

~~SECRET~~ A.L.

SOV/26-56-1-26/21

AUTHOR: Belinskiy, S.Ya. (Candidate of Technical Science)
TITLE: A Conference on New Types of Equipment for Unit-type Power Stations employing Super-critical Steam Conditions
(Soveshchaniye po voprosam novykh tipov oborudovaniya dlya blochnykh elektrostantsiy na sverkhkriticheskiye parametry para)
PERIODICAL: Teploenergetika, 1958, Nr 9, pp 92 - 95 (USSR)
ABSTRACT: A Conference on new types of equipment for unit-type power stations operating on super-critical steam conditions was called by the High Temperature Steam Commission of the Power Institute of the Academy of Science of the USSR on 14th-16th May, 1958. It was attended by more than 150 representatives of power equipment manufacturers, design organisation research institutes and of Gosplan USSR and RSFSR, the Ministry of Power Stations and the Scientific-Technical Committee of the USSR. Engineer S.I. Molokanov read a report on 'The prospective application of large unit sets with super-critical steam conditions'. An article of similar content by this author is published in this issue of this journal. Candidate of Technical Science

SCV/56-51-1-20/21

A Conference on New Types of Equipment for Unit-type Power Stations Employing Super-critical Steam Conditions

M.L. Oyvin, of Teploelektro project, gave a report entitled 'Technical tasks in designing the main equipment for initial steam conditions of 240 at 1015°C'. Candidate of Technical Science V.P. Stryasitskiy, also of Teploelektro project, dealt with 'The design of the thermal part of a 2400-MW regional power station'. Engineer V.A. Zvyagintsev, of Teploelektro project, gave important information about the design of superposed equipment and 300-MW unit-type sets for steam conditions of 300 at. and 620°C. Doctor of Technical Science V.P. Romadir reported upon 'Investigations of the All-Union Thermo-Technical Institute into super-critical steam conditions and associated problems'. Candidate of Technical Science A.V. Levin gave information about capacities of 300 - 400 MW for steam condition of 240 at., 750°C and 300 at., 650°C, developed by the Levin and Kostin Works. Candidate of Technical Science M.A. Pleskavitsov, of the Central Boiler Turbine Institute, described 'A design for a fire-fit-flow boiler of 710 tons per hour at 31" at. and 650°C'. Candidate of

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SU7/96-50-1-10/21

A Conference on New Types of Equipment for Unit-type Power Stations
Employing Super-critical Steam Conditions

Technical Science K.A. Rakev, of the All-Union Thermotechnical Institute, spoke on 'Development of the thermotechnical bases of super-high-output boiler sets for super-critical pressure' and Engineer V.M. Biman, of ORGENERGOSTROY, gave a report entitled 'Development of the design of a boiler set for 300 at. 650°C, for a 300-MW unit'. A report by Doctor of Technical Science Ya.M. Rubinshteyn, of the All-Union Thermotechnical Institute, was entitled 'The selection of method of drive for feed pumps for a power station with an initial pressure of 300 at.'. Doctor of Technical Science A.A. Lomakin, of the Leningrad Metal Works, recounted the design of feed pumps for very large unit sets running at super-critical steam conditions. Doctor of Technical Science L.D. Bernan, of the All-Union Thermotechnical Institute, discussed 'The provision of high-density condensers for steam turbines in unit-type power stations with super-critical conditions'. Candidate of Technical Science A.E. Gel'tman, of the Central Boiler Factory Institute, reported on 'The

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OIVIN, N. L. TEP

"Technical Instructions on Designing the Basic Thermo-mechanical Equipment
of Very Large Power Stations for Initial Steam Parameters of 240 atm, 580° C"

The Commission for High-parameter Steam of the Energeticheskiy institut
(Power Institute) imeni G. M. Krahizhanovskogo AN SSSR held a conference on
May 16, 1958 devoted to new types of equipment for block-assembled power stations,
operating at super-critical steam parameters. This paper was read at this
conference.

Izv. Akad Nauk SSSR, Otdel Tekh nauk, 1958, No. 7, p. 152

OYVIN, R. I.

100-17001

USSR/Furnaces

Mar 1947

"Two-chambered Furnace with Molten Slag Tapping,"
W L Oyvin and G A Sheinin, 11 pp

"Izv Vses Teplotekh Inst," No 3

Data on investigations of the very first two-chambered furnace with molten-slag tapping in the Soviet Union. Complete construction details.

1T42

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1/A

Effect of HgS on tissue respiration using Warburg's method. I. A. Cirigli and V. J. Olvin. *Forsenst.* *Utrikesid. O., No. 6, 39-40 (1943)*. Three fundamental difficulties arose during the study of the effect of HgS on tissue respiration by Warburg's method: absorption of HgS by the alkali in the side-arm vessel, rapid fall in the concn. of HgS in the fluid under investigation owing to oxidation, and significant (63%) dissoct. of HgS at pH 7.0 in Ringer soln. HgS in concns. of 0.8×10^{-4} to $2 \times 10^{-4} M$ causes a small (17%) decrease in the respiration of liver slices. Lower concns. show no effect. Although a more accurate method is necessary to study the effect of HgS, particularly in lower concns., the results indicate no certain, or only a slight, effect in concns. from $2 \times 10^{-4} M$ to $0.8 \times 10^{-4} M$. H. L. Williams

OYVIV, V.D.

✓ 506. Investigation of disturbance of certain liver functions by means of the thymol-veronal test. I. A. Olyin, V. I. Olyin, V. A. Tikhontavoy Vop. med. Nauk., 1955, 1, 295-299; Ref. Zb. Med., 1956, Abstr. No. 75975.—In rabbits the liver was affected by administering CCl_4 . The composition of the serum proteins was determined by electrophoresis, and the total protein content of the serum by refractometry. By means of the photocolorimetric method the turbidity produced in the serum in the thymol-veronal test was measured. In toxic hepatitis in rabbits the albumin content was reduced, and the quantity of γ -globulins, and particularly α_2 -globulins was increased. The thymol-veronal test was also positive in these cases. This was also observed in human subjects suffering from jaundice hepatitis. The positive is apparently determined by the appearance in the serum of pathological protein complexes extractable by ether and migrating during electrophoresis with the γ -globulins. (Russian) T. R. Pareo

3

OYVIN, V.I.; BOGDANOVA, V.S.

Pathergometry as a method of functional test of the skin. Vest. vener.
No.3:16-18 May-June 50. (CLML 19:4)

1. Of the Pathophysiological Department (Head -- Prof. I.A.Oyvin)
and of the Dermatological Department (Head -- Prof. L.N.Mashkilleyson),
Central Skin-Venereological Institute (Director -- Candidate Medical
Sciences N.M.Turanov) of the Ministry of Public Health USSR.

OYVIN, I.A., prof.; OYVIN, V.I.; BOGDANOVA, V.S.

Methods for measuring capillary permeability of the skin. Medich.
zhur. 20 no.3:89-96 '50. (MIRA 11:1)

1. Z viddilu patofiziologii (zaviduvach - prof. I.A.Oyvin)
TSentral'noe shirno-venerologicheskogo instituta Ministerstva
okhoroni zdorov'ya SRSR (direkotr - kandidat med.nauk N.M.
Tursov)
(CAPILLARIES--PERMEABILITY) (SKIN--BLOOD SUPPLY)