APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSTEIN, F. YA.

Significance of angioreceptors in the mechanism of hyperglycemic and hypertensive actions of adrenaline. F. Ya. Berenstein and I. A. Eidelstein (*Bull. exp. Biol. Med. Ma*[redacted]). Injection of 0.[illegible]–1.2 ml. of 1 : 1000 adrenaline into a segment of the common carotid artery or common iliac vein isolated by ligatures from the general circulation was found to cause in anaesthetised dogs after a latency of about 3 min. a rise in blood pressure and in blood sugar. The effect could be abolished by preliminary injection of the isolated segment of vessel with cadmium chloride solution.

G. S. Brindley

Chair of Biochemistry and Pathophysiology Laboratory, Vitebsk Vet. Inst.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

ILLEGIBLE

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, F. Ya.

The interrelation between microelements and vitamins. I. Cadmium and ascorbic acid. F. Ya. Berenshtein, M. M. Klchina, and N. S. Khidekel. *Uchenye Zapiski Vitebsk. Vet. Inst.* 13, 80-5(1954); *Referat. Zhur. Khim., Biol. Khim.* 1955, No. 9886.—It was shown in expts. with rabbits that the subcutaneous injection of Cd (as $CdCl_2$) in doses of 1-2 mg. in the course of a month causes a considerable lowering in the content of ascorbic acid (I) in the muscles, liver, spleen, kidneys, suprarenals, lungs, cerebrum, cerebellum, and the eyes. It appears to have no effect on the content of I in the blood. The addn. of $CdCl_2$ or of $Cd(NO_3)_2$ to solns. of I *in vitro* at the rate of 0.125 to 1.0 mg./ml. hastens the oxidation of I.

B. S. Levine

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, F.Ya.

Biological effects of fluorine. Uspekhi Sovremennoy Biol. 35, 216-28 '53. (CA 47 no.22:12660 '53) (MLRA 6:4)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, F.Ya.

Metabolism and the central nervous system. Uspekhi Sovremennoy Biol. 34, 367-83 '52. (MLRA 5:12)
(CA 47 no.14:7070 '53)

1. Med. Inst., Vitebsk.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, F.Ya.

Significance of Pavlovian ideas in the development of endocrinology. Sovet Med. 16 no. 11:11-16 Nov 1952. (CIML 23:3)

1. Professor. 2. Vitebsk.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

CA

11 E

Effect of zinc salts on carbohydrate metabolism. F. Ya. Berenshtein and M. L. Shkol'nik (Vitebsk Vet. Inst.). *Fiziol. Zhur. S.S.S.R.* **37**, 120-4(1951). Subcutaneous injection into rabbits or dogs of 0.1-0.2 mg./kg. of salts of Zn did not affect blood sugar; at 0.5-5.0 dosage hyperglycemic effects appeared. $ZnSO_4$ caused increased adrenaline hyperglycemia and weakened the insulin hypoglycemia; it lowered alimentary hyperglycemia in dogs and lowered the glycolytic activity of the blood. G. M. Kosolapoff

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

CA

11A

Biological role of copper. F. Ya. Berenshtein. *Uspekhi Sovremennoi Biol.* 20, No. 2, 177-93(1950). Review with numerous references.
G. M. Kosolapoff

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

CA

1/a

COMMON ELEMENTS

Biological role of zinc. F. Ya. Berenshteĭn. *Uspekhi Sovremennoĭ Biol.* (Advances in Modern Biol.) 27, 407-20 (1949).—Review with references. G. M. Kosolapoff

MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, ~~VITEBSK~~
F. Ye.

PA 3/49T61

USSR/Medicine - Manganese and Manganese Compounds Mar/Apr 48
Medicine - Reproduction

"The Biological Role of Manganese," F. Ye. Berenshteyn, Vitebsk, 12 pp

"Uspekhi Sovrem Biol" Vol XXV, No 2

Quotes analysis figures showing universal occurrence of manganese in living tissues. Lists views of various authorities on role of manganese in growth and reproduction processes. Refers to its effect on blood production, enzymes, and endocrine glands. It stimulates formation of antibodies and increases resistance against certain infectious diseases.

3/49T61

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

Pa

11F

Effect of trace elements on hormone activity. F. Ya. Berenshtein, *Fiziol. Zhur. S.S.S.R.* (J. Physiol.) **33**, 209-20 (1947); cf. *C.A.* **42**, 3051a. —After a review of the literature, the results on rabbits are presented. The trace substances were injected subcutaneously along with the hormone; controls omitted the trace substances. Dosages injected were: 1 mg./kg. Ni nitrate along with 0.5 mg./kg. adrenaline, 1 mg./kg. Co nitrate along with 0.5 mg./kg. adrenaline, 2 mg./kg. $CuSO_4$ along with 0.5 mg./kg. adrenaline, 1 mg./kg. $MnCl_2$ with 0.5 mg./kg. adrenaline, 2 mg./kg. NaF with 0.5 mg./kg. adrenaline, 5 mg./kg. NaBr with 0.5 mg./kg. adrenaline, 5 mg./kg. NaI with 0.5 mg./kg. adrenaline, 10 mg. Na borate with 1 mg./kg. adrenaline. Adrenaline hyperglycemia was thus shown to be affected by trace substances, in that Ni, Cu, Mn, and Br salts lower the hyperglycemia (15%, 20%, 18%, and 30%, resp.); salts of Co, I, and B do not have a significant effect; NaF increases hyperglycemia, especially after a 3-hr. waiting period, when controls began to drop, while the exptl. set still continued to give a rising hyperglycemia (increase of over 20% over controls). Similar expts. with insulin showed that (0.5 insulin unit per kg. used): salts of Cu, Mn, Br, I, and B increase the sensitivity to insulin (15%, 15%, 18%, 9%, and 20%, resp., lower than controls); NaF weakens the insulin effect (18% over control); salts of Co and Ni do not have a significant effect. 27 references. G. M. Kosolapoff

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

11 F

ea

Biological role of salts of elements occurring in the organism in minute quantities. XIX. The role of fluorine. F. Ya. Herenshteĭn. *Byull. Eksper. Biol. Med.* 19, No. 3, 78(1945); cf. C.A. 40, 1215[illegible].—Injection of NaF in small doses (0.5 mg. to 5 mg. per kg.) in dogs and rabbits produces hyperglycemia. NaF stimulates adrenaline hyperglycemia, has no influence on alimentary hyperglycemia, and decreases the hypoglycemia of insulin. Fluorine both *in vitro* and *in vivo* influences metabolism.

D. I. Macht

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

11 F

ca

Biological role of the salts of the elements that occur in the organism in minute quantities. XIX. Role of fluorine in carbohydrate metabolism. F. Ya. Berenshtein (Kafedry Biokhimii Meditsinskogo Inst., Vitebsk). *Byull. Eksptl. Biol. Med.* 19, No. 3, 57-60(1945); cf. *C.A.* 38, 1012[3]. — Subcutaneous injections of NaF in minimal doses produce a marked hyperglycemia in guinea pigs. NaF increases adrenaline hyperglycemia, exerts no definite influence on alimentary hyperglycemia, and lowers the hypoglycemia produced by insulin. It appears that F *in vivo* and *in vitro* affects carbohydrate metabolism.

D. I. Macht

COMMON VARIABLES INDEX

MATERIALS INDEX

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION

AUTHOR INDEX

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

CA

11 K

The influence of certain alkaloids on the agglutination of erythrocytes by hydrogen ions. I. Ya. Berenshtein, *J. Physiol. U. S. S. R.* **22**, 856-62 in German 861-2 (1937). The subcutaneous injection of 1.5 mg./kg. of caffein (I), 2.5-10 mg./kg. of morphine and 0.075-0.1 mg./kg. of strychnine (II) into dogs and rabbits had no effect on the agglutination of erythrocytes by H^+. The injection of 3-5 mg./kg. of I into dogs and rabbits shifted the agglutination zone to the acid side. Injection of II in doses of 0.1-0.2 mg./kg. into dogs and 0.25 mg./kg. into rabbits shifted the agglutination zone to the alk. side.

S. A. Kartala

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

The antagonistic influence of ions on the acid agglutination of erythrocytes. F. Ya. Berenshtein and M. I. Shkol'nik. *J. Physiol. U.S.S.R.* **22**, 848-55 (in German 855) (1937).—The inhibiting effect of cations on the acid agglutination of erythrocytes is in the order Li > Na > K > NH_4, and for anions SO_4 > Cl > NO_3 > I. The inhibiting effect after the simultaneous addn. of 2 anions in glucose soln. is additive, but when 2 cations are added the effect may be less than that of the 2 cations separately or it may equal the sum of the 2 single effects. Antagonistic effects were observed for Li + Ca, Li + Mg, Li + Ba, Li + Na, Li + K, Li + NH_4, NH_4 + Na, NH_4 + Ba, NH_4 + Ca, Ba + Mg, Ba + Ca and Ca + Mg. An additive effect was observed for Na + Ca, Na + Mg, Na + Ba, Na + K, Ca + K, K + Mg, K + Ba and K + NH_4 + Na. NH_4Cl + $MgCl_2$ inhibits agglutination to a greater extent than NH_4Cl alone.

S. A. Karjala

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

The reactions between sugars and boric acid. F. Ya. Berenshtein and A. P. Shpakovskii. *Ukrain. Khem. Zhur.* 11, 433-44(in German 444-5)(1930); cf. C. A. 29, 2054[4]. The reactions between H_3BO_3 and $Na_2B_4O_7$ and mannose, xylose, arabinose, dulcitol, amygdalin, and other glucosides were investigated. The degree of dissocn. of H_3BO_3 is not affected by amygdalin but is raised by dulcitol, mannose, xylose, and arabinose. H_3BO_3 may be titrated to the end with alkali and phenolphthalein in the presence of at least 2 mols. of dulcitol or 8 mols. of arabinose per mol. of H_3BO_3. H_3BO_3 has no effect upon the degree of rotation of sugars or upon the speed of mutarotation. $Na_2B_4O_7$ increases the speed of mutarotation of glucose, arabinose, and galactose considerably, but that of fructose shows no appreciable changes. In the presence of $Na_2B_4O_7$, the angle of rotation of monosaccharides decreases greatly. Thus for arabinose, glucose, galactose, and fructose, the drop is considerable, while for some galactose solns. having a $Na_2B_4O_7$ concn. of 0.10 and 0.20 mols. per l., the change is to the left provided the sugar concn. is not over 1.8 and 0.45%, resp. $Na_2B_4O_7$ has little effect upon the optical properties of disaccharides. Thus for maltose the angle of rotation does not change, for sucrose it decreases slightly, and for lactose it increases a little. Neither H_3BO_3 nor $Na_2B_4O_7$ have any effect upon the process of formation or properties of osazones.

B. Z. Kaunich

A.S.M. S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

CA

Physical chemistry of avian erythrocytes. F. I. Berenshtein, D. I. Lyach and N. P. Bedrikovskaya. *Russ. J. Physiol.* **16**, 530-40(1933).—Duck erythrocytes suspended in aq. sucrose undergo agglutination at p_H 5.9, goose erythrocytes at p_H 5.3-5.6, and hen erythrocytes at p_H 3.54-5.3; alkali and alk. earth salts inhibit agglutination in the order of Hofmeister's series. The rate of sedimentation of avian erythrocytes in their homologous plasma is $^1/_{10}$-$^1/_{30}$ that of horse erythrocytes; similar results are obtained for suspensions of horse erythrocytes in avian plasma, and of avian erythrocytes in horse plasma. In all cases the sedimentation rate is greater for plasma than for serum suspensions; it increases for avian and diminishes for horse erythrocytes when isotonic solns. of NaCl, $CaCl_2$, Na_2SO_4, glucose or sucrose are substituted for plasma. B. C. A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Effect of sugars on the dissociation of boric acid. F. I. Berenshtein and L. N. Aisenberg. *Ukrain. Khem. Zhur.* **8**, 307-15(1933); cf. *C. A.* **24**, 1088.—Fructose (I) has practically the same effect as mannitol in augmenting the dissocn. of H_3BO_3 (II); the magnitude of the effect is greatest with 2 mols. of I per mol. of II, and increases with the concn. Sucrose has no action, while that of maltose, lactose, glucose, erythritol and galactose increases in the order given, being, however, considerably less than that of I. B. C. A.

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

L 51103-65

ACCESSION NR: AR5012172

SiO_2-ZrO_2-Na_2O system are produced by the stabilizing action of ZrO_2 which strengthens the structural bonds of the glass lattice. The addition of a large amount of Na_2O does not reduce the chemical stability of the glass. The process of crystallization is accompanied by the formation of silicates; however, the degree of crystallization of the products is not sufficiently high, which apparently is due to the fact that ZrO_2 is not connected structurally with the other components of glass. The zirconium-bearing crystallized products have high chemical and thermochemical resistance and increased mechanical strength. These materials can be used for making acid-resistant plates and chemical apparatus. The search for new and more effective mineralizers will determine the course of future research on synthesizing materials containing zirconium dioxide (authors' abstract).

SUB CODE: GC, MT

ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

L 55203-65 EWT(m)/EWP(e)/EWP(i)/EWP(b) Pq-4 WH

ACCESSION NR: AP5012172 UR/0081/65/000/005/B064/B064

SOURCE: Ref. zh. Khimiya, Abs. 5B425

AUTHOR: Berenshteyn, A. Y.; Sentyurin, G.G.

TITLE: Producing transparent and quenched glass in a SiO_2-ZrO_2-Na_2O system

CITED SOURCE: Tr. Mosk. khim.-tekhnol. in-ta im. D. I. Mendeleyeva, vyp. 46, 1964, 70-74

TOPIC TAGS: glass, zirconium, zirconium compound

TRANSLATION: The zone of glass formation and the zone of compositions possessing a considerable tendency toward crystallization in the SiO_2-ZrO_2-Na_2O system were studied. Transparent zirconium glasses contain 45-75% SiO_2, 12-30% Na_2O and up to 25% ZrO_2; the most resistant to crystallization are glasses with an O:Si ratio equal to or less than 2.4 and containing up to 20% ZrO_2. Polyzirconium silicate glasses (greater than 20% ZrO_2) have a greater tendency toward crystallization when the O:Si ratio is equal to 2.5-3. Transparent polyzirconium glasses in the

Card 1/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

Berenshtein, A.V.

4

1/1

RM

MT

OKR Road-Transport Sci. Res. Inst, Kiev

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.L.; SMOLYAK, M.M.

"Transactions of the Central Asiaian Polytechnical Institute, vol.7 1957." Reviewed by A.L.Berenshtein, M.M.Smoliak. Izv. vys.ucheb.zav.; pishch.tekh. no.4:168-171 '59. (MIRA 13:2)

(Sugar manufacture)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.; ASAUL, Z.N.

Culture of chlorella on the wastes of distilleries. Ferm. i spirt.prom. 30 no.4:35-36 '64. (MIRA 18:12)

1. Institut botaniki AN UkrSSR.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.; ASAUL, Z.I.

Utilization of the wastes of fermentation industries in the cultivation of algae. Spirt.prom. 29 no.4:26-27 '63. (MIRA 16:5)

1. Institut botaniki AN UkrSSR.
(Distilling industries--By-products) (Algae)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.

"Continuous fermentation and cultivation of microorganisms".
Reviewed by A.F.Berenshtein. Spirt.prom. 28 no.2:43-45 '62.
(MIRA 15:3)

(Fermentation) (Micro-organisms)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.; RED'KO, D.I.; CHATSKIY, P.A.

For further technological progress in the alcohol industry and the liqueur and vodka industry. Spirt.prom. 28 no.2:5-7 '62. (MIRA 15:3)

1. Kiyevskiy likeroOvodochnyy zavod (for Berenshteyn).
2. Kiyevskiy sovet narodnogo khozyaystva (for Red'ko).
3. Chernigovskiy spirtotrest (for Chatskiy).
(Distilling industries) (Liquor industry)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.

"Alcohol technology" by D.N.Klimovskii, V.N.Stabnikova. Reviewed by A.F.Berenshtein. Spirt.prom. 27 no.3:42-43 '61. (MIRA 14:4)
(Alcohol) (Klimovskii, D.N.) (Stabnikova, V.N.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.

"Ethyl alcohol" by V.N.Stabnikov and others. Reviewed by A.F.Berenshtein. Spirt.prom. 26 no.7:46-47 '60. (MIRA 13:10)
(Ethyl alcohol) (Stabnikov, V.N.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, Aleksandr Filippovich; SIVOLAP, Ivan Kuz'mich; MURASHOVA, O.I., red.; KISINA, Ye.I., tekhn.red.

[Full utilization of distillers' feed] Kompleksnoe ispol'zovanie bardy spirtovykh zavodov. Moskva, Pishchepromizdat, 1960. 95 p. (MIRA 13:12)

(Distilling industries--By-products)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.; KHSHANOVSKIY, F.A.

Mechanization of the washing of yeast separator plates.
Spirt.prom. 25 no.8:39-40 '59. (MIRA 13:3)
(Yeast)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.

"Continuous method of fermentation" by V.L. IArovenko. Spirt. prom. 25 no.6:42-44 '59. (MIRA 12:12)
(Fermentation) (IArovenko, V.L.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.; BYKOVSKIY, V.K.

Steffen waste used as feeding stuff. Spirt. prom. 25 no.4:23-25 '59. (MIRA 12:7)
(Distilling industries—By-products) (Feeds)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.

Review of the book "Production of barley malt for fermentation by G.N.Silin, A.G.Fedorov. Spirt.prom. 25 no.2:45 '59. (MIRA 12:3)
(Malt) (Rye) (Silin, G.N.) (Fedorov, A.G.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

AUTHOR: Berenshteyn, A.F. SOV/71-59-2-25/26

TITLE: Review of the Book by G.N. Silin, and A.G. Fedorov "Production of Rye Malt for Kvas-Making" (Retsenziya na knigu G.N. Silina, A.G. Fedorova "Proizvodstvo rzhanogo soloda dlya kvasovaniya")

PERIODICAL: Spirtovaya promyshlennost', 1959, Nr 2, p 44 (USSR)

ABSTRACT: After a brief description of the contents of the book, which deals with the entire processing, handling and storing of rye malt, the author gives a favorable comment on the book as a whole, with exception of a few critical remarks pertaining to certain information which the book lacks and of other remarks pertaining to obsolete processing methods and machinery which have been superseded. The author also does not agree with certain recommendations given in the book, which are contrary to his experience, but concludes that the book should prove of interest to workers in the malt and alcohol industries.

Card 1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

replaced by one technologist. Laboratories should be relieved of most routine checks, such as taking temperatures, etc, which work should be performed as far as possible by the sections themselves. A staff of four employees - a supervisor, two chemists and an assistant should be in a position to cope with the entire work load in a small and medium size distillery. It is recommended that in certain plants a special scientific research laboratory be established with a designing bureau for examining and introducing new and improved production processes and new machinery with a view to eliminating waste and bringing down cost of production.
There are 1 table and 3 charts.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

SOV/71-59-2-7/26

AUTHORS: Berenshteyn, A.F., Red'ko, D.I. and Chatskiy, P.A.

TITLE: Structure of Management of a Distillery (O strukture upravleniya spirtovym zavodom)

PERIODICAL: Spirtovaya promyshlennost', 1959, Nr 2, pp 24-28 (USSR)

ABSTRACT: The existing structure of management of a distillery is top-heavy, in as much as one qualified worker (engineer, technician) counts for every 5 workmen. To approach the question of rational management it is necessary to divide distilleries in 4 groups in accordance with their capacity - small (600 dkl) medium (up to 1,200 dkl), large (up to 2,000 dkl), extra large (over 2,100 dkl of daily output). Corresponding with these groups, the article discusses 3 standard charts of administrative organizations, viz. for a small, a medium and a large size plant, the principle of the organization remaining the same in each case. Directly responsible to the manager are: the administration chief, the head mechanic, the head technologist, the head of the laboratory, the alcohol store-keeper and the chief accountant. Distilleries of group 1 and 2 should abandon the departmental system headed by foremen; in larger distilleries of group 3 and 4, two or three foremen should be

Card 1/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

FERTMAN, G.I.; BERENSHTEYN, A.F.

Present-day methods for the cultivation of yeast. Spirt. prom. 24 no.6:23-27 '58. (MIRA 11:10)
(Yeast)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.

Reviews of the collection "Alcohol, liquer, and vodka industries," collection no. 2, and the Scientific and Technical Information Bulletin of the All-Union Scientific Research Institute of the Distilling Industry. Spirt. prom. 24 no. 4:37-38 '58. (MIRA 11:7)
(Distilling industries)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.; RED'KO, D.I.; CHATSKIY, P.A.

Raising the food value of grain-potato stillage. Spirt. prom. 24 no.3:18-19 '58. (MIRA 11:6)
(Distilling industry--By-products) (Feeding and feeding stuffs)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.

MAMUNYA, A.U.; BERENSHTEYN, A.F.; BARANOVSKAYA, K.F.

Metering device for stillage. Spirt. prom. 24 no.2:13-14 '58.
(Distilleries--Equipment and supplies) (MIRA 11:3)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.

BUDNITSKIY, S.M.; BERENSHTEYN, A.F.

Utilizing molasses waste. Spirt. prom. 24 no.1:28 '58.
(MIRA 11:3)

(Distilling industries--By-products)
(Insect baits and repellents)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

Berenshteyn, A.F.

BERENSHTEYN, A.F.

"Alcohol and liquer-vodka industry". Spirt.prom. 23 no.6:47-48 '57. (MIRA 10:12)

(Distilling industries)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A. E.

Scientific and technical bulletin of the All-Union Scientific Research Institute of the Alcohol, Liqueur and Vodka Industries. Spirt. prom. 23 no.5:42-43 '57. (MLRA 10:8)
(Alcohol)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.

Measures for further improvement of the quality of baker's yeast made by alcohol plants. Spirt. prom. 23 no.5:11-12 '57.(MIRA 10:8)
(Yeast)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

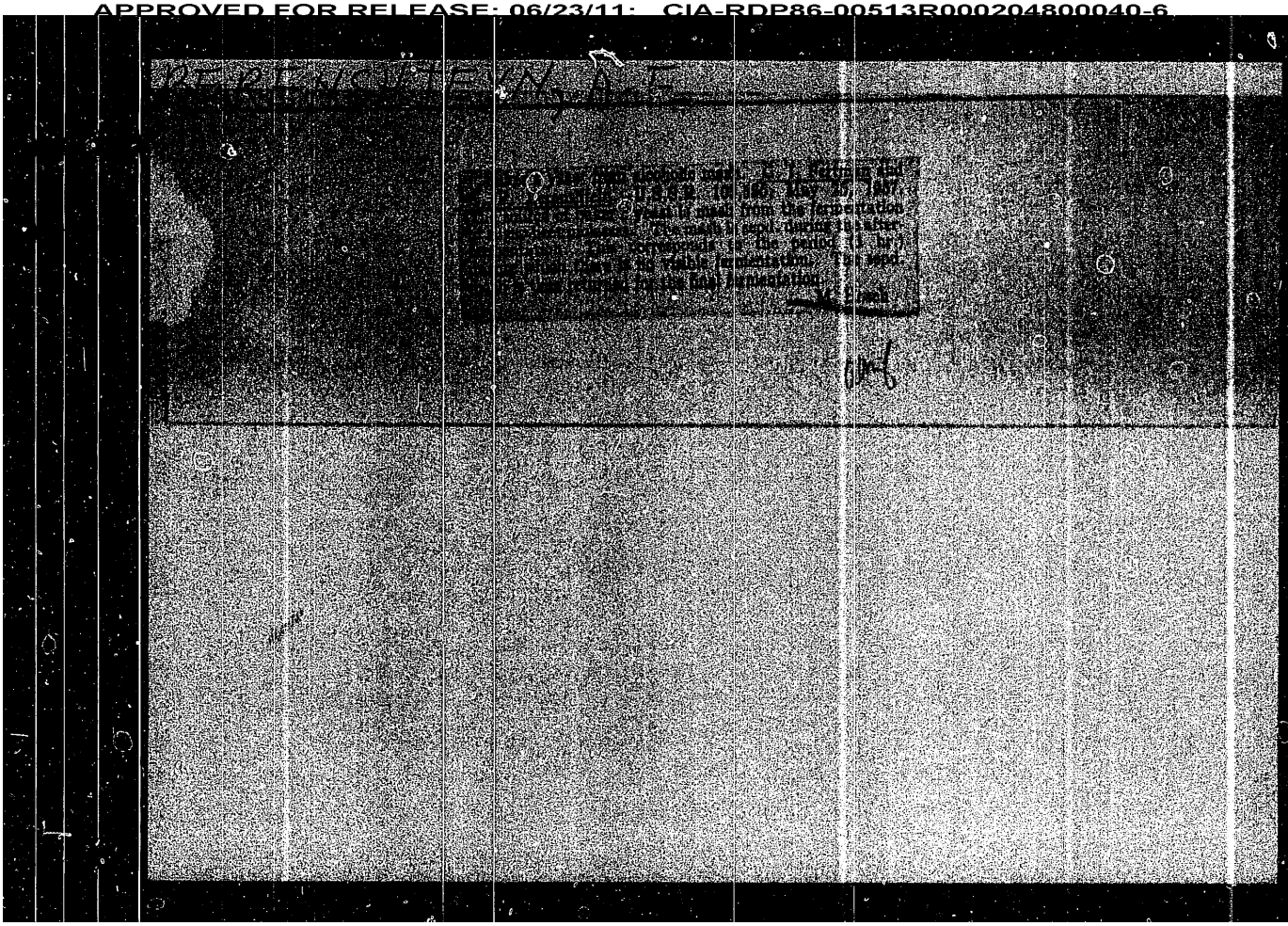
ASHKINUZI, Z.K., rukovoditel' brigady; BERENSHTEYN, A.F.; KUZNETSOV, N.M.; RABINOVICH, B.D.; CHATSKIY, P.A.; SIDORENKO, D.P.; KOVALEVSKAYA, A.I., red.; YAROV, E.M., tekhn.red.

[Continuous thermal processing of starchy raw materials] Nepreryvnaia teplovaia obrabotka krakhmalistogo syr'ia. Moskva, Pishchepromizdat, 1957. 59 p. (MIRA 12:4)

1. Kiyevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta spirtovoy promyshlennosti (for Ashkinuzi).
(Distilling industries)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A. F.

✓ Malting grain. A. F. Berenshtein and P. A. Panshin. U.S.S.R. 104,834, Feb. 26, 1957. The grain is charged into a vat and then steeped for 20 min. in stationary water. This is followed by approx. 30 min. of treatment with flowing water and aeration. The water is drained off, and the grain is sprinkled with aerated water for several hrs. for approx. 15 min. each hr.

M. Hosch

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.

Use of carbon dioxide in agriculture. Spirt.prom. 22 no.2:23-24 '56. (MLRA 9:8)

1. Glavspirt Ministerstva promyshlennosti prodovol'stvennykh tovarov.

(Carbon dioxide) (Photosynthesis)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A. F.

Continuous cooking of starch-containing raw material for the purpose of size reduction. Z. L. Ashkinuzi, B. D. Rabinovich, A. F. Berenshteiu, and P. A. Chatskii (All-Union Sci. Research Inst. Alcohol Ind., Kiev). *Spirtovaya Prom.* 22, No. 1, 4-10(1950).—Equipment, like crushers, feeders, mixers, and filters, used for the prepn. of fermentation mashes from potatoes, rye, and wheat are illustrated. Values are given for the amts. of H_2O and the temps. at which those materials are treated, the wts. worked up/hr., and the yields of EtOH in correct runs. Werner Jacobson

Chem

4

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

RED'KO, D.I.; MOLDAVSKIY, P.Yu.; BERENSHTEYN, A.F., spetsred.; KOVALEVSKAYA, A.I., red.; KISINA, Ye.I., tekhn.red.

[Progressive practices of the Martynov Alcohol Plant] Peredovoi opyt Martynovskogo spirtovogo zavoda. Moskva, Pishchepromizdat, 1956. 47 p. (MIRA 11:12)

(Martynov--Distilling industries)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.

Dissemination of progressive technology in the Ministry of the Food Products Industry of the U.S.S.R. ("Alcohol, liqueur, and vodka industry." Reviewed by A.F. Berenshtein). Spirt.prom. 21 no.4:38-39 '55. (MLRA 9:3)
(Distilling industries--Equipment and supplies)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F., PANSHIN, P.A.

Method for speeding up the wetting and germination of grain.
Spirt.prom. 21 no.4:26-29 '55. (MLRA 9:3)

1. Glavspirt (for Berenshteyn); 2. Khar'kovskiy spirtovyy trest (for Panshin)

(Malt)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.; IS'YANOV, S.Z.

Use of molasses by-products for fattening cattle. Spirt.prom. 21 no.1:31-32 '55. (MIRA 8:5)

1. Ukrainskiy likero-vodochnyy trest (for Berenshteyn). 2. Ukrzagotskot (for Is'yanov)
(Cattle--feeding and feeding stuffs)
(Distilling industries--by-products)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.

IS'YANOV, S.; BERENSHTEYN, A., inzhener.

Experience in feeding livestock with grain molasses. Mias. ind. SSSR. 25 no.5:43-44 '54. (MLRA 7:11)

1. Ukrainskaya skotozagotovitel'naya kontora (for Is'yanov)
2. Kiyevskoye otdeleniye Glavspirta (for Berenshteyn)
(Cattle--Feeding and feeding stuffs)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.

Use of waste products of distilleries. Spirt.prom.20 no.1:17-18 '54. (MLRA 7:5)

(Distilling industries--By-products) (Liquor industry--By-products)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.

Slops storage and delivery system in a liquor plant. Spirt.prom. 20 no.3:22-24 '54. (MLRA 7:10)
(Liquor industry--By-products)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.

CH

Effect of stirring on the intensity of fermentation of "strop" solutions. A. F. Berenshtein and B. M. Nakhamanovich. *Trudy Kiev. Filiala Vsesoyuz. Nauch.-Issledovatel. Inst. Spirtovoi Prom.* 1953, No. 1, 88-101; *Referat. Zhur., Khim.* 1954, No. 50842.—Laboratory expts. showed that stirring hastened appreciably the fermentation of sirups, particularly during the finishing stages when alc. is formed from intermediate products of sugar decompn. It also increased the yield of alc. because of more thorough sugar fermentation and did not affect the multiplication of yeast or its quality. Periodic shaking had a similar effect but to a much lesser degree. The beneficial effect of stirring is attributed to the removal of excess CO_2 from the mash, equal distribution of yeast, and the products of their activity and nutrients in the fermented liquid. M. Hosch

(1)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

Continuous process for production of alcohol from sirup. A. F. Berenshtein, D. I. Skoblo, and S. P. Gulyaev. *Trudy Kiev. Filiala Vsesoyuz. Nauch. Issledovatel. Inst. Spirtovoi Prom.* 1953, No. 1, 69-87; *Referat. Zhur., Khim.* 1954, No. 50841.—In the outlined process the 1st fermentation tank is used for growing yeast. The continuous fermentation is carried out in 2 stages, in the 1st of which, comprising 5-7 tanks, the greater part of the sugar is fermented; the fermentation is finished in successive tanks which are of smaller capacity. Through these tanks the mash is circulated forcibly at a rate 3-4 times faster than in the 1st stage. In this process the sirup is acid-sterilized in place of steam. This method of production gave a higher yield of alc. per ton of starch and resulted in considerable economies of water, steam, antifoam agents, and manpower. M. Hosch

C

(2)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.F.; NAKHMANOVICH, B.M.

Effects of mixing on fermentation activity of yeast cells, Saccharomyces cerevisiae, strain Ya, in nutrient molasses mash. Mikrobiologiya 22, 179-84 '53. (MLRA 6:3)
(CA 47 no.22:12750 '53)

1. All-Soviet Research Inst. Alcohol Ind., Kiev.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

CA

Dephlegmator with horizontal tubes. A. L. Malchenko and A. F. Berenshtein. Russ. 50,014, Nov. 30, 1939. Construction details.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

04

16

Substitutes for malt as the nutrient for the yeast in grain-potato distilleries. A. Berenshtein. *Spirto-vodochnaya Prom.* 14, No. 6, 27-8(1937); *Chem. Zentr.* 1938, I, 785.—Tests are reported on the substitution of superphosphate and $(NH_4)_2SO_4$ for the malt and thus reducing the quantity of it used by 60%. Yeasts of very good quality were obtained. M. G. Moore

COMMON ELEMENTS

MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

CA

PROCESSES AND PROPERTIES INDEX

16

Alcohol. A. P. Bernshteĭn and N. M. Kusnetzov. Russ. 39,727, Nov. 30, 1934. The waste from starch manuf., such as potato pulp, is heated to 80° to avoid saccharification and malt is added and fermentation conducted in the usual manner.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERG, S.L., polkovnik; VOROB'YEV, V.I., kapitan pervogo ranga; GIL'BO, G.M., kapitan pervogo ranga; ANANCHENKO, A.A.; BALAKSHINA, M.M.; BANNIKOV, B.S., kapitan vtorogo ranga; BAKHTINA, G.F.; BERENSHTAM, N.V.; BUTYRINA, N.Ya.; VOROB'YEV, V.I., kapitan pervogo ranga; GASS, I.P.; GINBYSH, N.S.; GLADIN, D.F., polkovnik; GOLOVANOVA, L.G., kand. ist. nauk; GOLUBEVA, Z.D., kand. filol. nauk; GONCHAROVA, A.I.; ZANADVOROVA, R.N.; IVANOVA, N.G.; KARAMZIN, G.B.; KOVAL'CHUK, A.S.; KRONIDOVA, V.A.; LITOVA, Ye.I.; MOLCHANOVA, T.I.; OKUN', L.S.; POCHEBUT, A.N.; RAYTSES, V.I.; SAVINOVA, G.N.; SENICHKINA, T.I.; SKRYNNIKOV, R.G., kand. ist. nauk; FURAYEVA, I.I.; CHIZHOVA, N.N.; YASINSKAYA, L.F.; GLADIN, D.F., polkovnik; LABETSKIY, Ye.F., podpolkovnik; LEBEDEV, S.M., kapitan pervogo ranga; ORDYNSKIY, N.I., kapitan pervogo ranga; NADVODSKIY, V.Ye., podpolkovnik; DEMIN, L.A., inzh.-kontr-admiral, glav. red.; FRUMKIN, N.S., polkovnik, zam. otv. red.; LEVCHENKO, G.I., admiral, red.; BAKHTINA, G.F., tekhn. red.

[Naval atlas] Morskoi atlas. n.p. Izd. Glavnogo Shtaba Voenno-Morskogo Flota. Vol.3. [Naval history] Voenno-istoricheskii. Pt.1. [Text for the maps] Opisaniia k kartam. 1959. xxii, 1942 p. (MIRA 15:5)

1. Russia (1923- U.S.S.R.) Ministerstvo oborony. (Naval history)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENSHTEYN, A.A.

TOPOLYANSKAYA, S.I.; LEV, M.S.; LURINA, Ye.I.; BERENSHTEYN, A.A.; GERASIMOV, M.A.

Data on immunization against influenza with Zhdanov's living vaccine. Zhur.mikrobiol.epid. i immun. no.9:16-20 S '54. (MLRA 7:12)

1. Iz zdravotdela Pervomaykogo rayona Moskvy (zav. zasluzhennyy vrach RSFSR D.A.Parfenenko) i sanitarno-epidemiologicheskoy stantsii Pervomayskogo rayona (glavnyy vrach O.V.Chizhova).

(INFLUENZA, prevention and control, Russia, mass vacc. with living vaccine)
(VACCINES AND VACCINATION, influenza, mass vacc. with living vaccine)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

Berensevich V.V.

[illegible]

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

Experimental Nuclear Reactor "Eva"

P/035/60/000/017/001/001
A076/A026

reservoir is filled with distilled water which acts as coolant, shield and reflector. It stands on a cast-steel plate and is enclosed by 2.5-meter-thick concrete and closed with a cast iron lid. About 900 m^3/h of water, pumped by two eccentric pumps made of special acid-proof steel, are needed for cooling purpose. The secondary cooling system requires about 350 m^3/h of water. Hot-chambers are located in the basement where a special lathe and a crane are installed. There are 6 photographs and 5 figures.

ASSOCIATION: Instytut Badań Jądrowych (Institute of Nuclear Research)

Card 3/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

physics and radiation as well as for the production of isotopes. The fuel elements are rods 6 mm in diameter and 500 mm long, containing 10% of U^{235}. The rods are enclosed in a 2 mm thick aluminum casing. Each fuel section contains 16 fuel rods, which are placed in two plates containing leading and water-flow holes. The rods in sections, are protected by aluminum sheet equipped with hooks to facilitate transportation. Due to the arrangement of regulating section and safety rods, three types of shapes were adapted: square, square with two cut-off edges and square with three cut-off edges. As a result the spacing of the fuel rods ranges from 13.5 to 17.5 mm. The fuel sections are placed 71.5 mm apart inside the core, and proper setting is ensured by two lattices made of flat aluminum bars, which are enclosed in an aluminum cylinder, known as the separator. The maximum number of sections which can be loaded is 51. The total load consists of 816 fuel rods, containing about 65 kg of uranium, of this 6.5 kg of U^{235}. At the beginning of the operation only 24 sections are loaded and the rest are filled out with fillers. In addition to control and safety rod channels, 8 isotope irradiation channels and another short irradiation channel lead through the pile. The channels are filled with water and only the short irradiation channel is dry. The reactor's reservoir with an outer diameter of 2,300 mm and a height of 5,700 mm is made of aluminum alloy and its interior is divided into three cylindric sections. The

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

P/035/60/000/017/001/001
A076/A026

AUTHOR: Berens, Tadeusz, Master of Engineering

TITLE: Experimental Nuclear Reactor "Eva"

PERIODICAL: Przegląd Mechaniczny, 1960, No. 17, pp. 510 - 517

TEXT: The author describes the experimental nuclear reactor "Eva" built in Poland two years ago at Świerk near Warsaw. The main reactor building contains also primary pumps, burnt-out fuel dumps, a special sewage system, ventilators, remote-controlled equipment, a dosimeter shelter with central dosing panel, air sampling pumps, distilling equipment, machine shop, offices, library, lecture room, laboratory, stores, dressing room, desinfection chamber and social equipment. Ventilating equipment, secondary pumps, cooling basin and tanks for radioactive waste are located outside the main building. Basic characteristics of the "Eva" nuclear reactor: thermal power 2,000 kw; max. electron flux 2 x 10^{13} neutr/cm^2 sec; uranium fuel enriched to a value of 10% U^{235}; quantity of fuel at the beginning of operation increased due to water temperature and origination of Xenon-135 to 4 kg; ordinary water is used as coolant, shield and reflector; minimum critical mass of U^{235} with fuel rods is about 3 kg. The reactor is destined for research into

Card 1/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENS, T.

Clamps. P. 63 MECHANIK Warszawa (Stowarzyszenie Inzierow i techikowPolskich) Vol. 28, no. 2, February 1955

SOURCE: EEAL LC Vol. 5, no. 7, July 1956

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

Acclimatization of the Siberian Red Ferret (Cont.) 24-57-4-12589

of 1953. The Siberian red ferret has no commercial value, but it is hunted quite extensively.

Card 2/2

L. Dinesman

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENS, K. P.

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6, p 121 (USSR) 14-57-6-12589

AUTHORS: Berens, K. P., Yanushevich, A. I.

TITLE: Acclimatization of the Siberian Red Ferret in Kirghizia (Materialy po akklimatizatsii kolonka v Kirgizii)

PERIODICAL: Akklimatiz. pushnykh zverey v Kirgizii. Frunze, 1956, pp 113-114

ABSTRACT: In January 1941, 26 Siberian red ferrets were released on the northern slope of the Terskey-Alatau near Uch-Bulak. In 1942 and 1943, three young ferrets were caught some 40 to 50 km away. Tracks belonging to the Siberian red ferret were discovered at 5 km away on a trail in the bottom of a spruce forest valley. The number of tracks decreased sharply in the valley near the places where the animals had been released, and four tracks were counted in two valleys in the winter

Card 1/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

Developments of Raccoon Dogs (Cont.) 14-57-6-12586

recommend that commercial licenses be granted to trap these animals along the banks of the Issyk-Kul'. A map showing their distribution around Lake Issyk-Kul' is included.

Card 2/2

L. D.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENS, K. R.

14-57-6-12586

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6, p 121 (USSR)

AUTHORS: Berens, K. R., Yanushevich, A. I.

TITLE: Developments of Raccoon Dogs (Nyctereutes procionoides Gray) Since Their Release /Rezul'taty vypuska yenotovidnoy sobaki (Nyctereutes procionoides Gray)/

PERIODICAL: V sb: Akklimatiz. pushnykh zverey v Kirgizii, Frunze, 1956, pp 75-82

ABSTRACT: Six female and nine male raccoon dogs were released in 1944 in the northern Semenovka region near Issyk-Kul' Lake. In 1952 these animals were found along the east and northeast shores of the lake and on the lower slopes of valleys running into it. Altogether 200 were found in an area 80 to 100 sq km. An attempt to introduce them into regions where the snow cover exceeded 50 cm was not successful. The authors

Card 1/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENS, K.; SHUGAR, D.

Ultraviolet absorption spectra and structure of halogenated uracils and their glycosides. Acta biochim. pol. 10 no.1:25 '63.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warszawa.

(NO SUBJECT HEADINGS)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENS, J.

"An Agent for Washing Woolen Textures." P. 337, (PRZEMYSL ROLNY I SPOŻYWCZY, Vol. 8, No. 9, Sept. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions,(EEAL), LC, Vol, 4, No. 1, Jan. 1955 Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENS, J.

Soft soap. P. 257. (PRZEMYSL ROLNY I SPOZYWCZY, Vol. 8, No. 7, July 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENS, JULIAN

V Emulsifying agents for margarine. Julian Berens (Zakład Detergentów GIPRIS, Warsaw). *Prace Głównego Inst. Przemysłu Rolnego i Spożywczego* 4, No. 1, 19–3(1954) (English summary).—A review with 51 references.

Werner Jacobson

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENS J.

3608

Berens J. Margarine Emulsifying Agent. 664.3.032.2

„Emulgator dla margaryny". (Prace Gł. Inst. Przem. Roln. i Spoż. No. 1) Warszawa, 1954, WPL, 24 pp., 10 figs., 15 tabs.

The production of five types of margarine emulsifying agents was examined and worked out, a part of them possessing the combined properties of stabilizing the margarine emulsion of the W/O type and of giving the margarine its anti-spattering properties. It was confirmed that in the production of margarine emulsions the best results are obtained with an emulsifying agent, consisting either of a solution of a technical glicerolmonostearate in an autooxidised and polymerised semi-drying oil (soya-bean oil), or of a mixture of uncomplete polyglyceroesters of stearin. A new explanation is advanced and justified of the action of factors which cause in margarine the formation of a W/O type emulsion and lack of spattering properties during frying in this emulsion. It was observed that the lack of spattering properties in butter or margarine is caused by the presence of emulsifying agents which condition the formation of an O/W emulsion under the influence of high temperature at the moment of decomposition of the basic W/O emulsion. The O/W emulsion evolved binds the water and a small quantity of fat; falling to the bottom of the vessel it foams and prevents the spattering of fat. The surface of the incomplete glycerol stearin esters and polyglycerols is represented diagramatically in relation to the chemical structure of the particular compounds. The positions of the products obtained are shown on the diagram together with other emulsifying agents, examined only theoretically. The relation between the surface-activity of these products and their chemical composition are demonstrated.

A G

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

On Accelerating the Ageing of Alloys of Aluminium with Magnesium Under the Influence of Small Admixtures of Silver and Zinc. (On the Causes of the Influences of Small Admixtures on the Kinetics of Ageing of Alloys III) 126-5-3-17/31

There are 9 figures, 5 tables and 13 references, 7 of which are Soviet, 3 English, 3 German.

ASSOCIATIONS: Ural'skiy gosudarstvennyy universitet imeni A. M. Gor'kogo (Ural State University imeni A.M. Gor'kiy) Sverdlovskiy filial VNIIM (Sverlovsk Branch of VNIIM)

SUBMITTED: July 17, 1957

1. Aluminum-magnesium alloys--Aging 2. Silver--Metallurgical effects 3. Zinc--Metallurgical effects

Card 6/6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

On Accelerating the Ageing of Alloys of Aluminium with Magnesium Under the Influence of Small Admixtures of Silver and Zinc. (On the Causes of the Influences of Small Admixtures on the Kinetics of Ageing of Alloys III)

126-5-3-17/31

to the intersection of the conode passing through the point of the composition of the alloy with the isotherm delimiting the phase region which encloses the composition of the alloy, and not the solubility which corresponds to the intersection of the straight line passing through the point of the composition of the ternary alloy parallel to the side of the concentration triangle. If this isotherm is intersected from the side of the concentration triangle at an acute angle and has a large length, then even a small admixture may bring about appreciable change of the saturation of the solid solution. If the angle of the intersection of the isotherm from the side of the triangle is large and the length of the isotherm is small, even a large admixture will have little influence on the saturation of an ageing alloy. In this second case a change of the kinetics of ageing under the influence of admixtures can be due to the effect of internal adsorption

Card 5/6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

On Accelerating the Ageing of Alloys of Aluminium with Magnesium Under the Influence of Small Admixtures of Silver and Zinc. (On the Causes of the Influences of Small Admixtures on the Kinetics of Ageing of Alloys III)

126-5-3-17/31

admixtures and also analysis of literary data on the diagram of state of the ternary system Al-Mg-Zn indicates that the observed acceleration in ageing cannot be attributed to the intensification of the total saturation of the solid solution with Mg in presence of a small admixture of zinc (it increases altogether only by 0.2 to 0.3% Mg). Apparently, this acceleration is due to a large extent to internal adsorption of zinc on the periphery of transient formations in the decomposing solid solution and also on the periphery of separating out crystallites of the excess phase. The influence of silver admixtures is similar. In judging the mechanism of the influence of small admixtures of a third component on the kinetics of decomposition of a saturated binary solid solution, it is necessary to take into consideration the character of the isotherms and of the conodes on the diagram of state of the respective ternary system. Thereby, the solubility value is important which corresponds

Card 4/6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

On Accelerating the Ageing of Alloys of Aluminium with Magnesium Under the Influence of Small Admixtures of Silver and Zinc. (On the Causes of the Influences of Small Admixtures on the Kinetics of Ageing of Alloys III)

126-5-3-17/31

Al-Mg alloys. The chemical compositions of the alloys used in the experiments are entered in tables, p.517. In Fig.1 the changes are graphed of the parameter of the crystal lattice of a solid solution as a function of time for an ageing temperature of 250°C; Fig.2 gives similar graphs for an ageing temperature of 300°C. In Fig.3 the dependence is graphed of the parameter of the crystal lattice of a solid solution on the concentration of the alloys. Table 5 gives the values of the lattice parameter of the phase T and of the solid solution at 300°C. The graphs Figs.6-9 contain the results of additional investigations of ageing in the systems Al-Mg-Ag and Al-Mg-Zn-Ag. By means of the method of measuring the changes in the lattice parameter of a decomposing solid solution with ageing time, it was established that admixtures of 0.2 to 1.0% zinc and silver accelerate the ageing of Al-Mg alloys. Analysis of experimental data on the solubility of Mg in Al in presence of zinc

Card 3/6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

due to internal adsorption. In earlier work (Refs.1-3), this problem was investigated on alloys of the solid solution type of copper in aluminium with admixtures of zinc or silver and conclusions were derived on the horophilic nature of these admixtures relative to aluminium base solid solutions and on the adsorptional nature of the influence on the decomposition of saturated solid solutions of copper in aluminium. Conclusions on the horophilic nature of admixtures of zinc and Ag relative to Al were also derived in later work of the authors (Ref.4). For investigating further this problem, alloys of the binary system Al-Mg were chosen. This system is the basis of numerous important ageing engineering alloys. As admixtures Zn and Ag were taken for which it is possible to assume that they are horophilic relative to the aluminium solvent. In earlier work (Ref.5) it was found that small admixtures of zinc have an accelerating influence on the ageing of

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENOVA, I. P.

AUTHORS: Arkharov, V. I., Berenova, I. P. and Megat, I. M. 126-5-3-17/31

TITLE: On Accelerating the Ageing of Alloys of Aluminium with Magnesium Under the Influence of Small Admixtures of Silver and Zinc (Ob uskorenii protsessa stareniya splavov alyuminiya s magniyem pod vliyaniyem malykh primesey serebra i tsinka)
(On the causes of the Influences of Small Admixtures on the Kinetics of Ageing of Alloys III) (K voprosu o prichinakh vliyaniy malykh primesey na kinetiku stareniya splavov. III)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1957, Vol 5, Nr 3, pp 516-526 (USSR)

ABSTRACT: Ageing of the alloys is subjected to the influence of admixtures. The selection of admixtures is generally based on empirical data. For a scientifically justified approach to this problem it is necessary to study the mechanism of the influence of the admixtures on the decomposition of saturated solid solutions. There is reason to assume that this mechanism is complicated. In absence of a sufficiently strong change in the solubility, the influence of admixtures on ageing may be

Card 1/6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

GALIMOV, M.D.; BABADZHAN, A.A.; BERENOV, S.V.; TIMOSHIN, D.Ya.; SAVIK, A.Ya.

Converter dust screen with water cooling. Biul. TSIIN tsvet. met. no.4:31-32 '58. (MIRA 11:5)
(Converters) (Dust collectors--Cooling)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

137-58-6-11953

Translation from Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 110 (USSR)

AUTHOR: Berenov, S.V.

TITLE: On the Process Procedure at the Middle Urals Copper Smelter Considered in Terms of Conversion to Treatment of the Copper-and-zinc Ores of the Degtyar Deposit (O tekhnologicheskoy skheme sredneural'skogo medeplavil'nogo zavoda v svyazi s perekhodom na pererabotku medno-tsinkovykh rud Degtyarskogo mestorozhdeniya)

PERIODICAL: Tr. i materialy. Ural'skiy n.-i. proyektn. in-t medn. promsti, 1957, Nr 2, pp 397-410

ABSTRACT: Two combined treatment procedures are compared: 1. Dressing of the ore by selective copper-and-zinc flotation with treatment of the Cu-Zn intermediates by whatever procedure appears optimal, and of the Cu concentrates by the procedure: roasting - smelting - Bessemer blow of the mattes. 2. Dressing of the ore by combined copper-and-zinc flotation with treatment of the combined concentrate on the pattern: deep roast - reverberatory smelting - Bessemer treatment of mattes and fuming of the Zn slags to extract the Zn from them. The 2nd procedure enjoys considerable advantages over the 1st. G.S.

Card 1/1

1. Copper--ores--Processing 2. Zinc ores--Processing 3. Ores--Flotation

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

The hydrometallurgy of low grade nickel ores. N. N. Baraboshkin, S. V. Beremov and A. K. Sharova. *Ural. Gosudarst. Nauch. Issledovatel. Inst. Tsvetnym Metal., Sbornik Nauch. Issledovatel. Rabot* No. 1, 74-80(1935).

The ores are treated with H_2SO_4, dried and heated at about 700°. Extn. with hot H_2O removes Ni along with Fe and Al which are pptd. with $CaCO_3$. The Ni is pptd. with Na_2S. Individual ores require some modification of this general procedure. H. M. Leicester

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

Zinc-copper fusions and their fuming. V. I. Smirnov and S. V. Berenov. *Ural'skii Gosudarst. Nauch.-Issledovatel. Inst. Tsvetnym Metal., Sbornik Nauch.-Issledovatel. Raport* No. 1, 5-24(1936). Cu-Zn residues contg. ZnS and Fe_2O_3 are heated with C at 1250°. Unless the Fe_2O_3 is present, C will not properly reduce the ZnS. Good sepn. of fume Zn is thus obtained. H. M. Leicester

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

Ch. XIII. New Theorems on the Derivative From Potential Energy According to an Unnecessary Unknown for Solution of Dynamically Indeterminate Problems 172

Ch. XIV. Using the Method of Dynamic Systems for the Analysis of Machines and Structures 177

Ch. XV. Relationship of Theory and Test Data 199

Bibliography for Part I 213

Bibliography for Part II 215

AVAILABLE: Library of Congress

Card 5/5

IS/bg
8-5-59

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

Ch. VI. On the Concentration of Stresses and the Scale Factor 101

Ch. VII. Determination of Fatigue Life 119

Ch. VIII. Significance of Fatigue Life Analysis and Analysis of Results Obtained 141

PART II. DETERMINATION OF STRESSES IN MACHINE PARTS WITH THE TRANSFORMATION OF KINETIC ENERGY INTO POTENTIAL ENERGY OF DEFORMATION

Ch. IX. Dynamic Systems of the First and Second Orders 148

Ch. X. Losses of Energy in the Work of Machines of the Second Order 156

Ch. XI. Dynamics of Machines of the Second Order 159

Ch. XII. Castigliano's Theorem on the Partial Derivative From Potential Energy According to an Unnecessary Unknown for the Solution of Statically Indeterminate Problems 167

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

TABLE OF CONTENTS:

Editor's Preface 3

Introduction 5

PART I. ANALYSIS OF MACHINE PARTS FOR FATIGUE LIFE

Ch. I. Fundamentals of the Science of the Strength of Materials 11

Ch. II. Efficiency of the Material 29

Ch. III. Fundamentals of Fatigue Life Analysis 45

Ch. IV. Analysis of Parts by the Fatigue Life Method 52

Ch. V. Test Data and the Proposed Method of Fatigue Life Analysis 70

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

machine parts for fatigue life was considered. This method consists basically of a differentiated approach to the choice of admissible stresses (depending on the number of load cycles) which make possible determination of the estimated fatigue life of parts allowing a sufficient safety coefficient. In the second part machine parts are analyzed for strength allowing for transformation of the kinetic energy of moving parts into potential energy of deformation. The inapplicability of the Castigliano theorem for determination of the deformation of elements of a dynamic system is shown, the principle of minimum work is formulated, and theorems permitting the calculation of dynamically indeterminate problems are demonstrated. Practical experiments verify the theoretical deductions presented, some of which, however, need further verification. The author of this book was a leading designer in heavy industry. The following personalities are mentioned: N.N. Afanas'yev (statical theory of fatigue strength), D.N.Reshetov, S.V. Serensen, L.A. Kozlov (restricted fatigue life in small cycle-values), Professor V.N. Treyyer (necessity of a new approach to the fatigue strength calculation of machine parts). There are 64 references: 63 Soviet, and 1 German.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

25(0) PHASE I BOOK EXPLOITATION SOV/2006

Berenov, Dmitriy Ivanovich (Deceased)

Raschety detaley na prochnost'; opredeleniye dolgovechnosti i dinamicheskikh usiliy (Strength Rating of Machine Elements; Determination of Durability and Dynamic Stresses) Moscow, Mashgiz, 1959. 214 p. 15,000 copies printed.

Reviewer: N.V. Molochnikov, Candidate of Technical Sciences; Ed.: V.I. Sokolovskiy, Candidate of Technical Sciences; Exceutive Ed. (Ural-Siberian Division, Mashgiz): T.M. Somova, Engineer; Tech. Ed.: N.A. Dugina.

PURPOSE: The book is intended for engineering and technical personnel.

COVERAGE: The book consists of two parts, first a revision of the author's Raschet mashin na prochnost (Analysis of Machines for Strength) published in 1953 in which a new method of analysis of

Card 1/5

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENOV, Dmitriy Ivanovich; YASNEV, D.A. [deceased], red.; TSYMBALIST, N.N., red. izd-va; ZHF, Ye.M., tekhn red.

[Crushing equipment in concentration and crushing plants] Drobil'noe oborudovanie obogatitel'nykh i drobil'nykh fabrik. Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1958. 295 p. (MIRA 11:7)
(Crushing machinery)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

describes the shortening of the production cycle, reducing weight and dimensions along with improvement of operational qualities, increase in durability, and finally improvements in the external appearance of machines. There are 98 references of which 95 are Soviet, 2 German, and 1 English.

TABLE OF CONTENTS:

Foreword 9

Ways of Increasing the Quality and Economic Efficiency of Machines (Pal'mov, Ye. V., Doctor of Technical Sciences) 11

Ch. I. Present Trends in Machine Design
1. Improvements in the Operational Features of New Machines (Berenov, D. I., Engineer) 30
Choice of plan for a new machine 30
Selection of a drive 32
Mechanization and automation 34
Choice of materials and allowable stresses 41
Life of the machine 43
45

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENOV, D.I.

PHASE I BOOK EXPLOITATION 882

Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Sverdlovskoye otdeleniye

Povysheniye kachestva i ekonomichnosti mashin (Increasing the Quality and Efficiency of Machinery) Moscow, Mashgiz, 1957. 626 p. 5,000 copies printed.

Additional Sponsoring Agency: Ural'skiy dom tekhniki.

Eds.: Pal'mov, Ye. V., Doctor of Technical Sciences, Sokolovskiy, V. I., Candidate of Technical Sciences; Reviewers: Bogachev, I. N., Doctor of Technical Sciences, Gorshkov, A. A., Doctor of Technical Sciences, Zhukov, P. A., Candidate of Economic Sciences; Tech. Ed.: Sarafannikova, G. A.; Managing Ed. (Ural-Siberian Division of Mashgiz): Sustavov, M. I., Engineer.

PURPOSE: The book is intended for engineering and technical personnel.

COVERAGE: The book generalizes and synthesizes experience accumulated by the Ural plants and to some extent that of the Siberian plants in improving the technical and economic features of manufactured machines and in improving their quality. Data are also presented on attempts to lower the cost and to increase the quality of machines during the designing and production stages. The author

Card 1/15

41
43
45

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

SOV/137-57-11-20773

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 20 (USSR)

AUTHOR: Berenov, D.I.

TITLE: New Machines at the Uralmashzavod for the Mining and Metallurgical Industries (Novyye mashiny Uralmashzavoda dlya gornorudnoy i metallurgicheskoy promyshlennosti)

PERIODICAL: V sb.: Novoye v konstruirovanii tyazh. mashin. Moscow, Mashgiz, 1956, pp 85-94

ABSTRACT: A communication is presented on the engineering parameters and data on the design of excavators with 3 to 8-m^3 shovels, and of walking draglines (excavators) with 14 to 20-m^3 shovels. Excavators with 25-m^3 shovels and 100-m booms are envisaged. Drilling pumps of 600 and 1100 hp and drilling winches of 1200 hp are being manufactured. Large bottom-dumping cone crushers and medium crushers with hydraulic aperture control, and diameters of 2.2 and 3 m, are scheduled for production. The production of 3.6x3.6-m ball mills and 200-220-m^2 sintering machines is being developed.

Card 1/1

I. M.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6

BERENOV, D.I.

USSR/Miscellaneous -- Book review

Card 1/1 : Pub. 128 - 35/38

Authors : Groman, M. B., and Shneyderovich, R. M.

Title : Book review

Periodical : Vest. mash. 9, 103-106, Sep 1954

Abstract : A critical review is presented of D. I. Berenov's book, "The Stress Analysis of Machines," published by "Mashgiz" in 1953.

Institution : .....

Submitted : .....

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800040-6