"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

AUTHOR: Tsarev, M.N.

68-58-2-21/21

TITLE: In the Technical and Economic Board of the Stalino Sovnarkoz (V tekhniko-ekonomicheskom sovete stalinskogo sovnarkhoza)

PERIODICAL: Koks i Khimiya, 1958, Nr 2, p 63 (USSR)

ABSTRACT: The section of chemistry and processing of coal considered the problem of the development of processing coal in the Stalino administrative region. Members of the staff of coke oven works, chemical works, Donetskiy industrial'nyy institut (Donets Industrial Institute) and UKhIN (Ukrainian Scientific Research Coal-chemical Institute) participated in the discussion. Decisions regarding future development of the industry were taken: 1) To increase the participation of gas coals in coking blends. 2) Erection of new coke oven works. 3) Organisation of the recovery of by-products on coke oven works which can be used as raw materials for the production of organic synthesis and to erect factories for the production of plastics and synthetic rubber. 4) Donets Industrial Institute is to organise training of specialists for the industry of organic synthesis.

ASSOCIATION: Trest Uglepererabotka (Coal Processing Trust)

AVAILABLE: Library of Congress

Card 1/1

1. Coal - Processing - USSR

USCOMM-DC-54,900

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

SOV/68-59-7-6/33

AUTHORS: Tsarev, M.N. and Zhordev, A.P.

TITLE: Progressive Methods of Coal Beneficiation Should be Introduced More Rapidly

PERIODICAL: Koks i khimiya, 1959, Nr 7, pp 14 - 16 (USSR)

ABSTRACT: Plan of the development in the field of beneficiation of Donets coals during 1959 - 1965 is discussed. It is pointed out that in projects of beneficiation plants, which are going to be built during the above period, the designs often include old type of equipment. Therefore, many projects should be reconsidered. In order to equip new plants, serial production of some equipment (centrifuges UTsM and NVV-1000, automatic filter presses, screening plants GUK-K and GUK-O, separators for beneficiation in heavy media etc.) should be started. The need for wider application of beneficiation in heavy media is stressed.

ASSOCIATION: Stalinskiy sovnarkhoz (Stalino Sovnarkhoz)

Card 1/1

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

SOV/68-59-9-13/22

AUTHORS: Tsarev, M.N., Shpakhler, A.G., Korchagin, L.V., Pluzhnik, V.I., Zel'din, B.B. and Bul'shteyn, B.M.

TITLE: Utilisation of Pitch and Pitch Distillates as Binders for Briquetting Coal Fines.

PERIODICAL: Koks i khimiya, 1959, Nr 9, pp 45 - 49 (USSR)

ABSTRACT: Binding properties of pitches from various works and the application of pitch distillates as binders in briquetting coal fines was investigated. It was established that the binding properties of pitches from various works (properties, Table 1) differ considerably. Binding properties of pitches were correlated with their crushing strength. With increasing crushing strength the quality of the briquettes improves. The crushing strength of pitch depends on the content of free carbon and insoluble in carbon disulphide residue. Physico-chemical properties of pitches depend mainly on the composition of coking blends and tar distillation conditions. Pitch produced from a blend containing an increased proportion of lean coals contain more carbon disulphide insoluble residue and possess poorer binding properties. Pitch produced by batch distillation possess lower mechanical strength and poorer

Card 1/3

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

SOV/68-59-9-13/22

Utilisation of Pitch and Pitch Distillates as Binders for Briquetting Coal Fines

binding properties than those produced on continuous distillation plants. Liquid pitch distillates cannot be used directly as binders (due to their low viscosity). Additions of 20 - 30% of pitch distillates to pitch increases the quality of the briquettes due to a decrease in the melting temperature of pitch and a more uniform coating of coal grains. Preparation of water emulsion from mixtures of pitch and liquid pitch distillate (Table 4) and its application as a binder improves the quality of the briquettes and decreases the consumption of pitch. Oxidation of liquid pitch distillate with air transfers it into the solid state with a softening temperature about 60°C. The product so obtained possesses high binding properties and if used in a proportion of 8 - 10% (of coal) can replace pitch. Water emulsion can be produced from the oxidation product which when applied as a binder improves the quality of the briquettes. Additions of pitch distillate to the coal permits decreasing the proportion of binder (pitch) by 10 - 12%, (Table 7).

Card 2/3

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

SOV/68-59-9-13/22

Utilisation of Pitch and Pitch Distillates as Binders for Briquetting Coal Fines

There are 7 tables and 6 Soviet references.

ASSOCIATIONS: Stalinskiy sovnarkhoz (Staline Sovnarkhoz)(Tsarev); Dnepropetrovskiy gornyy institut (Dnepropetrovsk Mining Institute); (Shpakhler, Korchagin, Pluzhnik); Mospinskaya briketnaya fabrika (Mospino Briquetting Works) (Zel'din, Bul'shteyn)

Card 3/3

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, M.N.; ZHERDEV, A.P.

Some problems in the future development of the manufacture of agricultural chemicals with coal chemicals as the raw material. Koks i khim. no.2: 40-42 '63. (MIRA 16:2)

1. Donetskiy sovet narodnogo khozyaystva.
(Donetsk Province—Agricultural chemicals) (Coke industry—By-products)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Ca

17

The process of oil formation in the leaves of Ocimum canum [illegible] in relation to the height of the ring. M. V. Tsugay. *Farmatsiya i Farmakol.* 1938, No. 2, 19-22; *Chem. Zentr.* 1938, II, 3102.—The higher on the stem the leaves occur, the more oil they contain. The intensity of the production and accumulation of oil is proportional to the intensity of the accumulation of carbohydrate and the respiration of the plant. M. G. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

CA

17

A method for determination of lobeline in Lobelia inflata. M. V. Tsurov. *Farmatsiya* 1930, No. 6, 15-18; *Khim. Referat. Zhur.* 1930, No. 11, 60.—Add 400 cc. of ether to 20 g. of the finely powdered plant, shake, add 10 cc. of 5% soda soln., shake for 15-20 min. and let stand for 1-2 days. Take two 100-cc. samples of the ethereal ext., which contains the alkaloids of the *Lobelia*, ext. each several times with 1% HCl, decant the HCl exts. into a sepg. funnel, make alk. with soda and ext. the alkaloids 5-6 times with ether, controlling the completeness of the extn. with silicotungstic acid. Dry the collected ethereal extn. over Na_2SO_4, filter, distil off the ether (remove the last 10-15 cc. by blowing with air), add to the remaining alkaloids 10 cc. of 0.1 *N* HCl and back-titrate the excess with 0.1 *N* NaOH in the presence of methyl red. The total content of the alkaloids is detd. from the amt. of HCl combined with them. One cc. of 0.1 *N* HCl corresponds to 0.0337 g. of the alkaloids (calcd. to the wt. of lobeline). After titration ext. the lobeline-HCl with $CHCl_3$ from the aq. soln., filter through a dry filter and titrate from a microburet with 0.02 *N* NaOH soln. in the presence of phenolphthalein. One cc. of 0.02 *N* NaOH corresponds to 0.00674 g. of lobeline.

W. R. Henn

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

C4

7

General method for determining camphor. M. V. Tsarev. *Farmatsiya* 1941, No. 1, 22-5.—Oximation of camphor with $NH_2OH.HCl$ in aq. EtOH can be followed by titrating against bromophenol blue. The fact that the end point is sharp permits accurate detn. of the extent of oximation at any moment. *d*-Camphor reacts somewhat faster than *l*-camphor under the prescribed conditions, reaching 99.18% oximation in 100 min. (*l*-camphor, 99.56% in 125 min.). The method is particularly useful for detg. camphor in the presence of esters, e.g., fatty oils.

Julian F. Smith

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

B 2.7

T2 [illegible]

Liquid acids from fatty oil of lycopodium (L. clavatum) [illegible] V. [illegible] (Compt. rend. Acad. Sci. U.R.S.S., 1941, 30, 515—517).— The [illegible] acids of lycopodium oil consist of a mixture of oleic acid (91.7[illegible] [illegible] acid [illegible]%), the constitution being proved by oxidation [illegible] F. R. S.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

CA

17

Chemical characteristics of Podophyllum peltatum. M. V. Tsarev. *Farmatsiya* 6, No. 6, 16-22(1943).—The podophyllin content of *Podophyllum peltatum* is higher than that of *P. emodi*, though the literature says otherwise. Both in yield and potency of podophyllin and podophyllotoxin the *P. peltatum* raised around Moscow is fully equal to American podophyll. The roots are richer in podophyllin than the rhizomes. Podophyllotoxin and picropodophyllin are isomers; podophylloquercetin is identical with quercetin; podophylloresin is a dihydroxy compd. $C_{22}H_{22}O_6$. Extn. of roots and rhizomes with 96% EtOH, followed by pptn. with dil. HCl, yielded 1/3 to 2/3 of the total podophyllin ext. in the first extn., about 1/3 in the next and less than 10% in the 3rd. An improved podophyllin assay method uses a special extractor to ext. 5 g. of sample with 25 ml. 95% EtOH, 2 to 2.5 hrs. on a boiling-water bath. The EtOH is evapd. and the residue is washed with 25 ml. 0.5% HCl. After 10-15 min. the amorphous residue is transferred to a glass filter, washed with 10-15 ml. 0.15% HCl, dried at 80° and weighed. This method is faster than the U. S. Pharmacopeia method.

J. F. Smith

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

CA

17

Seeds of Thermopsis lanceolata R. Br. as a source of cytisine. M. V. Vesrov. *Compt. rend. acad. Sci. U. R. S. S.* 43, 123-4(1944)(in English).—Seeds of *Thermopsis lanceolata* contained 2.18% total alkaloids (*TA*) and 0.611% cytisine (I). *TA* was extd. by moistening the ground seeds with 12% NH_4OH, repeatedly extg. with dichloroethane, removing *TA* from the ext. with 5% aq. H_2SO_4, filtering and purifying the *TA* by successively adding NH_4OH to alk. reaction, extg. the *TA* with $CHCl_3$, drying the $CHCl_3$ soln. and evapg. to dryness. On extg. the *TA* with acetone, an insol. fraction (approx. 1/4 of the *TA*), m. 269-270° was obtained; this is thought to be a new alkaloid. The acetone soln. was evapd. to dryness, extd. with ether and the residue recrystd. from acetone to obtain pure I, m. 153-4°. Addnl. I could be isolated from accompanying alkaloids by dissolving them in alc. and adding concd. HNO_3 dropwise. Isolation of I as its *p*-toluenesulfanyl deriv., m. 205°, is described. I. W. Perry

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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PROCESSES AND PROPERTIES INDEX

Ca

10

Two new compounds of cytisine. M. V. Tsirev. *Doklady Akad. Nauk. S.S.S.R.* **45**, 244-5(1944); *Compt. rend. acad. sci. U.R.S.S.* **45**, 191-3(1944)(in English); cf. *C.A.* **27**, 3478; **28**, 6749. N-(*p*-Tolylsulfonyl)-cytisine (I), m. 204-5°, was prepd. by shaking together a soln. of cytisine (II) in 1 *N* KOH with an ether soln. contg. 4 molar equivs. of *p*-$MeC_6H_4SO_2Cl$. An acetone-ether mixt. can be used for recrystn. of I, one part of which is sol. in 1625 and 205 parts of water, resp., at 15° and 100°. (1-Naphthylsulfonyl)cytisine (III), m. 229-30°, was similarly prepd. For best results EtOAc is used for recrystn. of III, though benzene, dichloroethane, and petr. ether are also suitable. One part of III dissolves in 6620 and 1100 parts of water at 15° and 100°, resp. The low soly. of III in water makes it particularly suitable for quant. detn. of II. J. W. Perry

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, M. V.

USSR/Chemistry

Card 1/1

Authors : Belikov, A. S.; Ban'kovskiy, A. I.; and Tsarev, M. V.

Title : Alkaloids from Gleditschia Triacanthos L.

Periodical : Zhur. Ob. Khim. 24, Ed. 5, 919 - 922, May 1954

Abstract : A new alkaloid (triacanthine) of the composition $C_8H_{10}N_4$ was obtain- from Gleditschia triacanthos L leaves. Other derivatives of triacanthine are : hydrochloride, hydrobromide, nitrate, picrate, picronlonate, sulphate and iodomethylate. The method of separating and purification of the alkaloid is described. Seven references.

Institution : All-Union Scientific-Research Institute of Medicinal and Aromatic Herbs

Submitted : November 22, 1953

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, M.Ya., inzh.

Regulate the time of delivery of planning papers and improve their qulaity. Stroi. truboprov. 7 no.11:8-9 N '62. (MIRA 15:12)

1. Trest po stroitel'stvu gazoprovodov Glavnefteprovodstroya Ministerstva stroitel'stva predpriya neftyanoy promyshlennosti SSSR.
(Gas, Natural—Pipelines)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, N.

Explorers of the future. Zhil.-kom.khoz. 10 no.9:16-18 '60. (MIRA 13:9)

1. Predsedatel' obkoma profsoyuza rabochikh mestnoy promyshlennosti i kommunal'nogo khozyaystva, g. Rostov-na-Donu.
(Rostov-on-Don--Municipal services)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, N. I.

"Lymph Vessels of the Conjunctiva of the Eyelids." Cand Med Sci, Leningrad Sanitary-Hygiene Medical Inst, Leningrad, 1954. (RZhBiol, No 8, Apr 55

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

3481 TSAREV N. I.

Konstruirovaniye zhenskoy verkhney odezhdy (Dlya massovogo poshiva) 2-ye izd M. Gizlegprom, 1954 216 s. s ill. 1 l. chert. 23 sm 100,000 ekz (1-y savod 50tys) 8 r. V. Per. (54-57321) 687.12.022

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

USSR/Human and Animal Morphology (Normal and Pathological) Lymph System S-4

Abs Jour : Ref Zhur - Biol., No 12, 1958, No 55121

Author : Tserev, N.I.
Inst : Chkalov ~~Institute~~ of Medicine.
Title : Direction of the Lymphatic Flow from the Human Palpebral Conjunctive.

Orig Pub : Tr. Chkalovskogo med. in-ta, 1956, vyp. 5, 461-465

Abstract : The lymphatic flow from the middle half of the upper eyelid conjunctive is directed into the submaxillary lymphatic nodules, while from the lateral half it is directed into the parotid lymphatic nodules. Mostly, the lymph gland flows from themiddle part of the palpebral conjunctive through the vessels of the medial canthus. The lymphatic flow from the lower eyelid conjunctive is mostly also directed through the vessels of the medial canthus of the palpebral fissure. Submaxillary lymphatic nodules predominate among the regional lymphatic nodules. Parotid and anterior aural nodules are found less frequently.

Card : 1/1

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, N.I.; RAZBASH, I.Ya., dotsent, nauchnyy redaktor; SINICHENKO, L.M., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor

[Making women's coats ans suits] Konstruirovanie zhenskoi verkhnei odezhdy; dlia massovogo poshiva. 2-e izd. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1954. 213 p. (MLRA 8:4)

(Tailoring (Women's))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

SINYAKOV, Aleksandr Borisovich; TSAREV, Nikolay Ivanovich; KARASEV, V.K., red.

[Technology of the processing of men's suits made from fabrics containing over 50% of lavsan fibers; practices of the Leningrad House of Fashion Design] Tekhnologiia obrabotki muzhskikh kostiumov iz tkanei, soderzhashchikh svyshe 50% volokna lavsan; opyt Leningradskogo Doma modelei. Leningrad, 1964. 26 p. (MIRA 18:2)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

ROMANOVA, Anna Seliverstovna; TSAREV, Nikolay Ivanovich; ANTIPOVA, A.I., red.

[Pattern construction for men's shirts according to girth experience of the "Krasnaia rabotnitsa" Clothing Factory in Leningrad] Konstruirovanie muzhskikh sorochek po polnotam; opyt Leningradskoi shveinoi fabriki "Krasnaia rabotnitsa." Leningrad, 1964. 30 p. (MIRA 17:9)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, N.I. (Leningrad)

Experience in the manufacture of men's shirts. Shvein. prom. no. 3:32-34 My-Je '64. (MIRA 17:9)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

ALEKSANDROV, A. P.; KHLOPKIN, N. S.; POLOGIKH, B. G.; TSAREV, N. M.; SLEDZYUK, A. K.

"Operation of atomic plant on the icebreaker Lenin."

report submitted for 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva, 31 Aug-9 Sep 64.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

2c

L 20050-65 EPF(c)/EPF(n)-2/EWT(m)/EPA(bb)-2/T Pr-4/Pu-4 AEDC(a)/AEDC(b)/AEDC(a)/SSD/SSD(a)/AFWL/ASD(p)-3/ESD(t)/ESD(gi) DM

ACCESSION NR: AP4049535 S/0089/64/017/005/0349/0359

B

AUTHORS: Afrikantov, I. I.; Mordvinov, N. M.; Novikov, P. D.; Pologikh, B. G.; Sledzyuk, A. K.; Khlopkin, N. S.; Tsarev, N. M.

TITLE: Operating experience with the atomic installation of the "Lenin" ice breaker 19

SOURCE: Atomnaya energiya, v. 17, no. 5, 1964, 349-359

TOPIC TAGS: nuclear power system, reactor shutdown, reactor start up, nuclear propulsion

ABSTRACT: The icebreaker covered some 60,000 miles since its commissioning, of which 40,000 miles were in ice. The reactors operate at present with their second fuel charge. Each reactor delivered from its first charge 430--490 thousand MW-hr of thermal energy in more than 11,000 hours. The average yield was 13,000 MW-day/ton of uranium, with the maximum reaching 30,000. The reactors operated

Card 1/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

L 20052-65

ACCESSION NR: AR4039377

of compressors in the experimental engine 2DN-53 (65 hp at 1600 rpm). The design incorporates a RUTA type compressor and an Eboshpokher gas turbine compressor. A nomogram was plotted for combined operation of the compressors at typical speeds, i.e. 1600 and 1000 rpm. Efficiency cumulates in parallel coupled compressors, while for tandem coupling it depends on the point at which the total resistance line intersects with the compressor curve. It is shown that the gas turbine compressor exerts significant resistance to the flow of air at low load levels and begins to operate efficiently only above engine loads which insure compressor speeds of 10,000 rpm. Up to 60% of the pressure generated by a gas turbine compressor is lost at high load levels to overcome the resistance offered by a drive actuated compressor. Air should be channeled to bypass the drive actuated compressor in the latter case. One illustration. P. Shelest.

SUB CODE: PR ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

SEVAST'YANOV, N.D.; TSAREV, N.P.

Introducing a boring tool with a vibration damping chamfer. Stan. i instr. 26 no.8:32 Ag'55. (MIRA 8:12)
(Cutting tools)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

KALININ, A.P., kand.med.nauk; TSAREV, N.P.

Complications after vaccination. Sov.med. 25 no.1:127-130 Ja '61. (MIRA 14:3)

1. Iz kafedry khirurgii i neotlozhnoy khirurgii (zav. - prof. P.V. Kravchenko) Kazanskogo gosudarstvennogo instituta usovershenstvovaniya vrachey imeni V.I.Lenina i Kanashskoy lineynoy bol'nitsy (nachal'nik G.V.Kalechits).

(VACCINATION)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, N. V.

Dissertation: -- "On the Propagation of Elastic Waves in a Granular Medium." Cand Phys-Math Sci, Geophysics Inst, Acad Sci USSR, 23 Jun 54. (Vechernyaya Moskva, 14 Jun 54)

SO: Sum 318, 23 Dec. 1954.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

SOV/85-58-10-12/34

AUTHOR: Tsarev, P., Chief of Administration, USSR DOSAAF Central Committee

TITLE: A High Degree of Discipline and Organization (Za vysokuyu distsiplinu i organizovannost')

PERIODICAL: Kryl'ya rodiny, 1958, Nr 10, p 9 (USSR)

ABSTRACT: The author stresses the importance of greater discipline and better organization in DOSAAF units. He praises several aeroclubs for the high standards they maintain, among them the Krasnoyarskiy aeroklub (Krasnoyarsk aeroclub), (chief S. Yankovskiy), and the majority of Ukrainian aeroclubs, but finds fault with many other clubs, including those in Yaroslavl', Ryazan', Rostov, Alma-Ata, Gor'kiy, Stalingrad, and Vladimir, where lack of discipline and carelessness on the part of pilots and instructors has led to accidents. Personalities mentioned include flying instructor Borovkov (Yaroslavl'), flying instructor Sorokin (Ryazan'), flying instructors A. Chuguyev (Rostov) and A. Saulin (Alma-Ata), and M. Tsurkan, chief of aviation unit (Gor'kiy), A. Zavin, chief of aeroclub (Vladimir), flying instructor Krest'yaninov and senior engineer V. Latvis (Vladimir), and unit commander Korolev and flying instructor Men'shov (Gor'kiy).

ASSOCIATION: Upravleniye TsK DOSAAF SSSR (USSR DOSAAF Central Committee Administration).

Card 1/1

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, P.

Ten gold medals. Kryl.rod. 14 no.9:20-21 S '63. (MIRA 16:9)
(Parachuting)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, P.

For the "Adriatic Cup." Kryl. rod. 16 no.10:22-23 O '65.
(MIRA 18:12)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

L 7788-66 EWT(d)/FSS-2/EWT(1)/EWA(h)

ACC NR: AP5022963 SOURCE CODE: UR/0256/65/000/006/0067/0070

AUTHOR: Tsarev, P. K. (Engineer, Colonel); Savis'ko, P. A. (Senior engineer, Lieutenant)

ORG: None

TITLE: Aerial situation representation panel

SOURCE: Vestnik protivovozdushnoy oborony, no. 6, 1965, 67-70

TOPIC TAGS: parametron, air defense system, control panel, computer application

ABSTRACT: Air defense units can accomplish successfully their missions only if there is always a clear picture of the instantaneous aerial situation. There exist numerous control schemes using luminescent panels. The authors report on a new control device built with parametrons which has very high reliability, long lifetime, low required power, and an insignificant sensitivity to external conditions and perturbations. Furthermore, the panel is inexpensive to make. The article (1) describes the design and operation of parametrons; (2) describes the computer device which accepts coded messages from ST-35 telegraph devices; (3) discusses the operation of the receiving registers, each of which can choose among 784 panel locations and flash at each location one of the 0 to 9 digits; the code decipherer converts the incoming code into a combination of electroluminophore sectors; and (4) outlines the design and composition of the cell control circuits (made of address parametrons, buffer

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L 7788-66

ACC NR: AP5022963

parametrons, current amplifiers, and terminal memory parametrons) and of a simple displaced pulse generator. Orig. art. has: 5 figures and 1 table.

SUB CODE: DC, EC, MS / SUBM DATE: none

nw

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, P.P.

Device for clamping branch pipes and couplings to pipes at a 90° angle. Rats.i izobr.predl. v stroi. no.100:18 '54. (Pipe--Welding) (MLRA 8:10)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, P. V.: Master Geolog-Mineralog Sci (diss) -- "Generalization of experience in engineering-geological investigation to provide principles for designing and building a series of hydroelectric power plants in areas of hard rock". Moscow, 1959. 15 pp (Min Higher Educ USSR, Moscow Geological Prospecting Inst im S. Ordzhonikidze), 110 copies (KL, No 15,,1959, 114)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, P.V.

Some engineering and geological research problems in the building of hydroelectric plants in rock ground areas. Izv. vys. ucheb. zav.; geol. i razv. 2 no.12:128-133 '59. (MIRA 14:6)

1. Moskovskiy gosudarstvennyy institut imeni S. Ordzhonikidze. (Hydroelectric power stantions) (Engineering geology)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

BALAYEV, Lev Grigor'yevich; TSAREV, Petr Vasil'yevich; POPOV, I.V., doktor geol.-miner. nauk, prof., otv. red.; ZOLOTOV, P.F., red.izd-va

[Loess in central and eastern Ciscaucasia] Lessovye porody TSentral'nogo i Vostochnogo Predkavkaz'ia. Moskva, Izd-vo "Nauka," 1964. 247 p. (MIRA 17:4)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, S.A.

ANIKHANOV, P.A.; MINEHVIN, G.V.; TSAREV, S.A.

Automatic control in die stamping. [Izd.] LONITOMASH vol.40:194-205 '56. (MLRA 10:4)
(Sheet metal work) (Automatic control)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, S. A.

SEVCENKO, V.B. [Shevchenko, V.B.]; ZOLOTUCHA, S.I. [Zolotukha, S.I.]; KASCEJEV, N.F. [Kashcheyev, N.F.]; ~~CAREV, S.A.~~ [TSarev, S.A.]; MICHAJLOV, A.A. [Mikhaylov, V.A.]; TOROPCENOVA, G.A. [Toropchenova, G.A.]; MANCIK, M. [translator]

Complex utilization of uranium ores. Jaderna energie 4 no.11: 338-341 N '58.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

ISAREV, S.A.

21(4) PHASE I BOOK EXPLOITATION SOV/2714

International Conference on the Peaceful Uses of Atomic Energy. 2nd, Geneva, 1958

Doklady sovetskikh uchenykh; yadernoye goryucheye i reaktornyye metally. (Reports of Soviet Scientists; Nuclear Fuel and Reactor Metals) Moscow, Atomizdat, 1959. 670 p. (Series: Its: Trudy, vol. 3. 8,000 copies printed.

Ed. (Title page): A.A. Bochvar, Academician, A.P. Vinogradov, Academician, V.S. Yemel'yanov, Corresponding Member, USSR Academy of Sciences, and A.P. Zefirov, Doctor of Technical Sciences; Ed. (Inside book): V.V. Pereverzev and G.M. Pchelintseva; Tech. Ed.: N.I. Mazel'.

PURPOSE: This volume is intended for scientists, engineers, physicians, and biologists working in the production and peaceful application of atomic energy; for professors and students of schools of higher technical education where the subject is taught; and for people interested in atomic science and technology.

COVERAGE: This is volume 3 of a 6-volume set of reports on atomic energy, presented by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy, held in Geneva from September 1 to 13, 1958. Volume 3 consists of two parts. The first part, edited by A.I. Zubov, is devoted to geology, prospecting, concentration and processing of nuclear source material. The second part, edited by O.L. Zverev, includes 27 reports on metallurgy, metallography, processing technology of nuclear fuels and reactor metals, and neutron irradiation effects on metals. The titles of the individual papers in most cases correspond word for word with those in the official English language edition on the Conference proceedings. See SOV/2081 for the titles of the other volumes of the set.

[redacted], M.A., L.A. [redacted], M.L. Blom, A.M. Shishov, and V.M. Lakeyenko. Flotation of Pitchblende From Synthetic Mixtures and Ores (Report No. 2062) 239

Rygalov, M.A., and I.P. Lavrinah. Floatability of Beryl (Report No. 2065) 249

Lashkin, A.N., S.S. Metal'nikov, and A.S. Tyrnut'yan. Extraction of Uranium From Natural Water (Report No. 2063) 259

Shevchenko, V.B., S.I. Zolotukhin, E.F. Kashchenev, S.A. Tsarev, V.A. Kiturlov, and G.A. Toropchenova. Complex Utilization of Uranium Ores (Report No. 2064) 266

Kaplan, G.Ye., and T.A. Ospenskaya. Investigations on Alkaline Methods for Monazite and Zircon Processing (Report No. 2154 274

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

Nov 52

TSAREV, S. G.

USSR/Medicine - New Synthetic Drug

"Synthetic Arekolin," S. G. Tsarev, Moscow Vet Acad

Veterinariya, No 11, pp 57-59 1952

Describes a new synthetic drug Arekolin produced by Malkov. Its exptl use in doses of 0.5 ml of a 1% soln administered to sheep weighing 25-30 kg caused an increase in the action of salivary glands, in the gastric and intestinal tonus, and in the frequency of the peristalsis. It is recommended for the same use and in the same dosage as the vegetable Arekolin.

263T67

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, S. G.

Antihelmintic action of [illegible]
Tsarev (Moscow Vet. Acad.) [illegible]
30-1(1953).—Synthetic [illegible]
is recommended as a [illegible]
alkaloid. In ducks the [illegible]
mg./kg., with therapeutic [illegible]

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

V-5

USSR/Pharmacology and Toxicology. Cholinergics

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 47195

Author : Tsarev S.G.
Inst : -
Title : Pharmacological Properties of Synthetic Arecoline

Orig Pub : Farmakol. i toksikologiya, 1956 (1957), prilozh. Sb. ref., 43-44

Abstract : A comparative study of synthetic arecoline and vegetable preparations in experiments on mice, rabbits, ducks, geese, dogs, horses, cows, and sheep, established that the synthetic preparation, as to its pharmacological properties (characteristic strength and duration of action, as well as by its anthelminthic effect on birds and dogs), does not differ in the least from vegetative arecoline.--A.A. Myazdrikova

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, S.G., kand. veterin. nauk; NIKOLAYEVA, V.V.

Searching for a laboratory model and the prophylaxis of atrophic rhinitis in swine. Veterinariia 39 no.8:73-74 Ag '62. (MIRA 17:12)

1. Kazanskiy veterinarnyy institut (for TSarev). 2. Dal'nevostochnyy nauchno-issledovatel'skiy veterinarnyy institut (for Nikolayeva).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

CHERVYAKOV, D.K., prof.; TSAREV, S.G., dotsent; KREPYSHEV, Ye.M., dotsent; LOKTIONOV, V.N., mladshiy nauchnyy sotrudnik

Effect of chloracetophos, thiophos, and chlorophos on the development of the larvae of the warble fly in cattle. Uch. zap. KVI 89:117-130 '62.

Use of phosphorus organic preparations for the treatment of trichophytosis in animals. Ibid.:131-139 (MIRA 18:8)

1. Laboratoriya khimioterapii (zav. - prof. D.K.Chervyakov) Kazanskogo veterinarnogo instituta.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

[illegible], [illegible], [illegible]

Studying the larvicidal action of phosphorus organic [illegible] on Tendipes forma larvis plumosus 1. Uch. zap. KVI 89: [illegible] 1[illegible]. (MIRA 18:8)

1. Laboratoriya khimioterapii (zav. - prof. D.K.Chervyakov) Kazanskogo veterinarnogo instituta.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, Sergey Georgiyevich; FEDOTOV, V.G., red.; SAYTANIDI, L.D., tekhn. red.

[Use of drugs in veterinary medicine] Primenenie lekarstvennykh sredstv v veterinarii. Moskva, Izd-vo MSKh RSFSR, 1963. 233 p. (MIRA 16:7)

(Veterinary materia medica and pharmacy)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, Sergey Georgiyevich; FEFERMAN, A.Ye., red.

[Medicinal plants in veterinary medicine] Lekarstvennye rasteniia v veterinarii. Moskva, Rossel'khozizdat, 1964. 171 p. (MIRA 18:3)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

ISAREV, S. M.

CA

19

The manufacture of silicate brick from the alluvial sand of the Dnepr. A. A. Averkin and S. M. Tsarev. *Stroitel. Materialy* 1936, No. 2, 23-6; *Chem. Zentr.* 1936, I, 2847.—Lab. and plant expts. are reported on the production of sand-lime brick from the sand taken from the bed of the Dnepr. The sand is washed and the water drained off. Its compn. is 94.71% SiO_2, 2.81% $Na_2O + K_2O$, and slight amts. of clayey impurities. 6.5-8.5% CaO is added and the bricks are pressed by the usual method, steamed under 8 atms. pressure, and dried 20 days. M. G. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, S. M.

TSAREV, S. M. "The preparation of the raw mass for the production of silicate bricks", Mosk. stroit. materialy, 1948, Issue 6, p. 7-13.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 7 1949).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TEREV, S.S.; TERESHCHENKO, N.I., red.

[Accounting practice on a collective farm] Opyt ucheta v kolkhoze. Moskva, Izd-vo Kolos, 1964. 91 p. (MIRA 17:8)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, S.V., inzh.

Mobile section buildings. Mont. i spets. rab. v stroi. 25 no.3:21-22 Mr '63. (MIRA 16:2)

1. Kuybyshevskoye montazhnoye upravleniye trasta Neftekhimmontazh.
(Buildings, Portable)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, V., inzh. (Astrakhan'); NIKOL'SKIY, V.; POPOV, Yu., starshiy master; ARKHIPOV, I., malyar (g. Cheboksary); PINDYURIN, F. (g. Biysk); PLAVIN, B.M., mekhanik; LOGINOV, B.

Advertising board. Izobr.i rats. no.2:32-33 F '62. (MIRA 15:3)

1. Rostovskiy-na-Donu kotel'no-mekhanicheskiy zavod (for Popov).
(Technological innovations)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

NELIPA, N.F.; TSAREV, V.A.

Inverse dispersion relations for the photoproduction of π-mesons on nucleons. Zhur. eksp. i teor. fiz. 38 no.1:259-260 Jan '60. (MIRA 14:9)

1. Fizicheskiy institut im. P.N.Lebedeva AN SSSR.
(Photonuclear reactions) (Mesons) (Nucleons)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

NELIPA, N.F.; TSAREV, V.A.

Double dispersion relations and the photoproduction of π-mesons. Zhur. eksp. i teor. fiz. 40 no.6:1710-1712 Je '61. (MIRA 14:8)

1. Fizicheskiy institut im. P.N. Lebedeva AN SSSR.
(Photonuclear reactions)
(Mesons)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

NELIPA, N. F.; [illegible], V. A.

"The Dispersion Relations for K-Meson Photoproduction on Nucleon and π-Meson on Hyperon"

report presented at the Intl. Conference on High Energy Physics, Geneva, 4-11 July 1962

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

ZAVARITSKIY, N. V. and TSAREV, V. A.

"Experimental Test of the Spin-Wave Theory to Ferromagnetic Metals."

report presented at the 8th Intl. Congress on Low-Temperature Physics, 17-21 Sept 62. London, England

Inst. for Research on Problems of Physics. Acad. Sci. USSR

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

43363
S/056/62/043/005/011/058
B102/B104

AUTHORS: Zavaritskiy, N. V., Tsarev, V. A.

TITLE: Variation of saturation magnetization of ferromagnetics at helium temperatures

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 5(11), 1962, 1638-1643

TEXT: The temperature variation of the spontaneous magnetic moment, dM_s/dT, was measured between 1.4 and 5°K on iron and nickel cylinders, 3 cm long and of 0.18 cm diameter. The impurity content of Ni was $\leqslant 0.1\%$, that of Fe $\leqslant 0.03\%$; both samples were annealed in vacuo at 1000°C for 3 - 4 hrs. Since the variations of M_s are very small in this temperature region (0.01%), dM_s/dT was determined from the oscillations of M_s induced by temperature oscillations. The amplitudes of the latter were measured with three thermometers; the frequency was 9.2 cps and the wavelength 16 cm for iron and 3.6 cm for nickel. At 4.2°K the magnetic

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susceptibility $\chi = QH^{-3}$ for $1 \leqslant H \leqslant 11$ koe and $Q \simeq 10^8$ for Ni. From $M = M_s(1-gH^{-2})$, $g \simeq Q/2M_o \sim 10^5$, $M_o \simeq 510$ CGSM for Ni, $dM/dT = (dM_s/dT)\ (1-g/H^2) - (M_s/H^2)(dg/dT)$ follows. The corresponding curves are shown in Figs 3 and 4. How far Bloch's law is satisfied at these temperatures was examined from the temperature dependence of $dM/M_o dT$, which, according to Bloch, should read $dM/M_o dT = \frac{3}{2}CT^{1/2}$. For nickel, agreement was found between 3-5°K, but for iron this was the case only at a field of 2 koe. At lower temperatures or stronger fields the law is violated and $dM/M_o dT$ decreases more rapidly than $\sim T^{1/2}$. The results [illegible] spin wave theory, whereafrom

$$\left|\frac{dM_s}{M_o dT}\right| = \frac{3}{2}CT^{1/2}\left[1 - \frac{4}{3}\frac{\Gamma(1/2)}{\zeta(3/2)}\left(\frac{\mu H}{kT}\right)^{1/2} - \frac{1}{3}\frac{\zeta(1/2)}{\zeta(3/2)}\frac{\mu H}{kT}\cdots\right] \quad (6a)$$

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

result. K is the wave vector of the spin wave, A is a quantity proportional to the exchange integral and $\zeta(x)$ is Rieman's zeta function; for iron $C = 3.7 \cdot 10^{-6}$ and $\mu = 1.1 \cdot 10^{-20}$ erg/G $\simeq 1.2\mu_0$, where μ_0 is Bohr's magneton, for nickel $C = 10^{-5}$ and $\mu = 0.22 \cdot 10^{-20}$ erg/G $\simeq 0.25\mu_0$. Hence the temperature dependence of M_s agrees well with the spin wave theory. There are 6 figures and 1 table.

ASSOCIATION: Institut fizicheskikh problem Akademii nauk SSSR (Institute of physical problems of the Academy of Sciences USSR)

SUBMITTED: June 13, 1962

Fig. 3. dM/dT = f(H) for Ni; o at 2°K and at 4.2°K.

Fig. 4. dM/dT = f(H) for Fe; o at 2°K and at 4.2°K.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

Variation of saturation magnetization of... S/056/62/043/005/011/058 B102/B104

Fig. 3

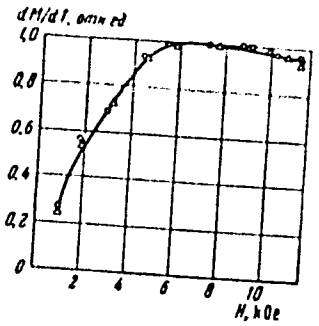
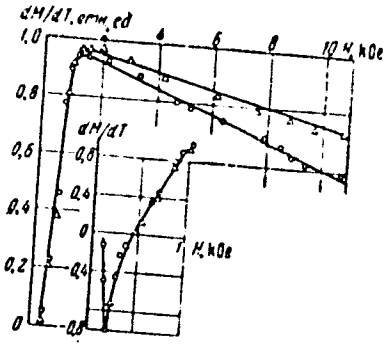


Fig. 4



Card 4/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

S/0048/64/028/003/0533/0536

ACCESSION NR: AP4023402

AUTHOR: Zavaritskiy, N.V.; Tsarev, V.A.

TITLE: Saturation magnetization of ferromagnetic materials at liquid helium temperatures /Report, Symposium on Ferromagnetism and Ferroelectricity held in Leningrad 30 May to 5 Jun 1963/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.3, 1964, 533-536

TOPIC TAGS: saturation magnetization, low temperature saturation magnetization, iron, nickel, iron saturation magnetization, nickel saturation magnetization, Bloch's law, spin waves

ABSTRACT: The magnetization of nickel single crystals and polycrystalline nickel and iron samples was measured at temperatures from 1.4 to 5°K and magnetizing fields from 1 to 11 kOe. The experimental technique, which gives directly the temperature derivative of the magnetization, is described elsewhere (N.V.Zavaritskiy and V.A.Tsarev, Zhur.eksp.i teor.fiz.16,432,1952). The susceptibility was found to be inversely proportional to the cube of the magnetizing field. Accordingly, the relation between magnetization, M, saturation magnetization, M_s, and magnetizing

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

ACCESSION NR: AP4023402

field, H, was of the form $M = M_s(1-q/H^2)$. The temperature derivatives of M_s and q were found to be proportional to each other; i.e., the quantity $M_s dq/q dM_s$ was independent of temperature and was approximately 10 for both metals. The contribution of the para-process to the magnetization of both metals was found to be of the order of 10^{-6}. This is below the upper limit determined by P.Kapitza (Proc.Roy.Soc.A, 131,243,1931). Deviations from Bloch's law $M_s = M_o(1-CT^{3/2})$ were observed at the lowest temperatures and highest fields. The values of dM_s/dT were compared with calculations of M.K.Schafroth (Proc.Phys.Soc.A,67,33,1954), based on simple spin wave theory. This theory was able to account for the deviations from Bloch's law, but in the case of iron it was necessary to assume a value of 1.2 Bohr magneton, instead of the theoretical value 2 Bohr magnetons, for the interaction constant of the spin waves with the magnetizing field. The value of the constant C in Bloch's law was found to be 3.7×10^{-6} for iron, 10×10^{-6} for polycrystalline nickel, and 9×10^{-6} for nickel single crystals magnetized in the [111] direction. These values are in good agreement with results of other workers, obtained at higher temperatures. Orig. art. has: 8 formulas, 5 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 00

SUB CODE: PH

DATE ACQ: 10Apr64

NR REF SOV: 003

ENCL: 00

OTHER: 007

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, V.A.

Analysis of the reaction $\gamma + p \rightarrow K^+ + \Sigma^0$. [illegible] Jl '65. (MIRA 18:8)

1. Fizicheskiy institut im. P.N.Lebedeva AN SSSR.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

ABSTRACT. This is a continuation [illegible] by the auth[illegible] to the region of higher fields (Izv. AN SSSR, ser. fiz., v. 28, 533, 1964). The tem-

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

AVROV, P.Ya.; BULEKBAYEV, Z.Ye.; GARETSKIY, R.G.; DAL'YAN, I.B.; IGUMENOV, V.M.; TSAREV, V.A.; SHLEZINGER, A.Ye.; YANSHIN, A.L., akademik

New gas-bearing region in the Ural Mountain region. Dokl. AN SSSR 162 no.2:393-396 My '65. (MIRA 18:5)

1. Institut geologicheskikh nauk AN KazSSR; Trest "Aktyubnefterazvedka"; Geologicheskiy institut AN SSSR i Aktyubinskaya geofizicheskaya ekspeditsiya.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

LYUBIMOV, Sergey Petrovich; TSAREV, Vasiliy Alekseyevich; CHERNICHENKO, Yuriy Dmitriyevich; MIRONOV, T.V., red.; MATVEYEV, A.P., tekhn. red.

[Resources of virgin lands are for the people] Bogatstva tseliny - narodu. Moskva, Izd-vo "Sovetskaia Rossiia," 1960. 101 p. (MIRA 14:7)

(Reclamation of land) (Agriculture)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

L 2253-66 EWT(1)/EWP(m)

ACC NR: AR6000708 SOURCE CODE: UR/0124/65/000/009/B050/B050

AUTHORS: Troyankin, Yu. V.; Tsarev, V. K.

TITLE: Aerodynamics of a strong cyclone chamber with overhead gas inlet

SOURCE: Ref. zh. Mekhanika, Abs. 9B327

REF SOURCE: Sb. Resp. Nauchno-tekhn. konferentsiya po kompleksn. ispol'z. tepla i topliva v prom-sti. B. m., Kiyevsk. un-t, 1964, 97-106

TOPIC TAGS: cyclone, gas flow, aerodynamics, self similar flow, drag

ABSTRACT: The results of theoretical and experimental investigations are discussed on the character of the flow in large size cyclone chambers with overhead gas inlets. Cyclones with free gas inlets from an annular space in a lifting gas passage and circular cyclones with rosettes are considered. A method is outlined for modeling the gas dynamic processes occurring in an isothermal cyclone. It is assumed that the flow is steady and the gas motion is self-similar. Fundamental criteria are obtained to provide a similarity between the actual chamber flow and its model. Results of experimental investigations are given on the aerodynamics of the process in the model cyclone chamber with transparent walls. Flow patterns in the cyclone chamber are investigated in detail. On the basis of the above investigations recommendations are made for selecting the optimum cyclone chamber geometry from

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

ACC NR: AR6000708

among the considered schemes. In particular, it is shown that among the investigated cyclones the best aerodynamic characteristics (lowest hydraulic resistance, most uniform velocity field, absence of stagnation points, etc) are ensured by the gas cyclone with circular blade separators. Yu. A. Lashkov [Translation of abstract]

SUB CODE: 04, 20

hs

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

ANTROPOV, G.P.; ZYSIN, Yu.A.; KOVRIZHNYKH, A.A.; TSAREV, V.P.

Fast neutron spectrometer. Prib. i tekh.eksp. 6 no.4:30-33 Jl-Ag '61. (MIRA 14:9)

(Spectrometer)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

L 01[illegible]-66 EWT(d)/EWP(m)/EWA(d)/[illegible] ; [illegible]
EWP(1)/EWA(c) IJP(c) MJW/JD/HM

ACCESSION NR: AP5020167 UR/0135/65/000/008/0037/0038
621.791.037

AUTHOR: Gerasimov, A. I. (Engineer); Kudasov, B. G. (Engineer); Pavlovskiy, A. I. (Engineer); Tsarev, V. P. (Engineer)

TITLE: Electron gun with high current stability

SOURCE: Svarochnoye proizvodstvo, no. 8, 1965, 37-38

TOPIC TAGS: welding, electron beam welding, welding gun, electron gun, gun cathode, tantalum cathode

ABSTRACT: A new type of electron gun for vacuum electron-beam welding has been developed. This gun is equipped with a disk-shaped tantalum cathode 1 mm thick and 8 mm in diameter, with a system for stabilizing the beam current within ±0.5 mamp. The gun operates with an accelerating voltage of up to 50 kv. At 50 kv a beam current of over 80 mamp can be obtained. At a voltage of 40 kv and a beam current of 110—130 mamp, the beam diameter in the welding plane is 0.5—0.7 mm. Under these conditions the depth of penetration in AMts aluminum alloy is 25 mm at a weld width of 2.5 mm. The use of a cathode made of pure tantalum instead of lanthanum hexaboride extends the service life of the gun and improves its reliability. Orig. art. has: 4 figures. [ND]

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

L 01810-66

ACCESSION NR: AP5020167

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MM, EC

NO REF SOV: 005 OTHER: 000 ATD PRESS: 4086

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

YEMELIN, Ye.A.; SVISTUNOVA, G.N.; TSARFIN, Ya.A.

Simultaneous determination of sulfuric acid and phenolsulfonic acid in mixtures. Zav.lab. 28 no.5:548 '62. (MIRA 15:6)

1. Vladimirskiy nauchno-issledovatel'skiy institut sinteticheskikh smol.

(Sulfuric acid) (Phenolsulfonic acid)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, Ye. Eng. Capt. and CHUGAYEV, Yu. Lt. Col.

"Television in the Control of Guided Missiles," Krasnaya Zvezda, No.59, page 3, 10 March 1956

This article contains a popular description of the utilization of television as an aid to the control of guided missiles. It presents some opinions of Soviet military experts as to the use of television in that field.

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, Ye. (Capt.) and CHUGAYEV, Yu. (Engr., Lt. Col.)

"Television in Guided Missiles," Krasnaya Zvezda, 10 Mar 1956.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREV, Yu.V., kapitan meditsinskoy sluzhby

Pharmaceutical kit for first aid. Vest. protivovozd. obor. no.7:29 Jl '61. (MIRA 14:8)

(PHARMACY, MILITARY
(FIRST AID IN ILLNESS AND INJURY)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

L 06327-67 EWT(m)/EWP(t)/ETI IJP(c) JD
ACC NR: AR6013834 (A,N) SOURCE CODE: UR/0276/65/000/011/B046/B047

AUTHORS: Tsareva, A. A.; Fedotova, V. D.

TITLE: Several peculiarities of the heat treatment technology of bearing parts made of EI347Sh steel

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 11B284

REF SOURCE: Tr. Vses. n.-i. konstrukt.-tekhnol. in-ta podshipnik. prom-sti, 3(39), 1964, 10-14

TOPIC TAGS: steel alloy, ball bearing steel, metal heat treatment / EI347Sh steel alloy

ABSTRACT: The effects of quenching temperature and exposure time on the grain size, microstructure, and hardness of steel were investigated. It was shown that exposure time at the final temperature significantly increased the grain size and coarsened the microstructure. For example, the grain size and microstructure after an exposure time of 1 min/mm at a final temperature of 1200C is coarser than after 8 sec/mm at a final temperature of 1260C. For sufficiently short exposure times, significant differences in temperature do not affect the grain size and

Card 1/2 UDC: 621.78:621.822

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L 06327-67

ACC NR: AR6013834

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microstructure. During the final heating prior to quenching of EI347Sh steel parts, an exposure time of 6—12 sec/mm (depending only on the thickness of the part) is recommended. Modifications of the heating regime prior to quenching should be performed by increasing or lowering the final heating temperature. Recommended heating regimes prior to quenching are presented for the temperature interval 1220—1240C. A microstructure scale for ball bearing parts is developed which is used in instructions for the manufacture of heat-resistant bearing parts made of steel EI347Sh (RTM 9-62). 4 illustrations, 2 tables. [Translation of abstract]

SUB CODE: 13, 11

bearing steel 18

Card 2/2 mLE

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

66517

18.1150

SOV/137-59-7-15793

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 7, p 228 (USSR)

AUTHORS: Sheyn, A.S., Tsareva, A.A., Fedotova, V.D., Pavlova, Z.V.

TITLE: Steels for Rings and Rolling Parts of High-Temperature Bearings, Their Properties and Heat Treatment

PERIODICAL: Tekhnol. podshipnikostroyeniya, 1958, Nr 17, pp 68 - 88

ABSTRACT: Investigations were carried out into the effect of the geometrical shape and dimensions, the fiber direction, the temperature of quench-hardening, and annealing and chilling processes on changes in the structure and dimensions during heat treatment, stability of dimensions, hot hardness and contact endurance of "EI-347", "EI-161" and other heat resistant steels. Attempts were made to replace "EI-347" steel by a heat resistant bearing steel having considerable carbide heterogeneity. For this purpose steels were investigated containing (in %): C 0.60 - 0.81; Cr 2.99 - 8.01; W 1.3 - 7.4; V 0 - 1.26; Mo 0 - 0.49. Two new steel grades "V7Kh4F" and "V4Kh4MF" were developed, suitable to operate at temperatures

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66517

SOV/137-59-7-15793

Steels for Rings and Rolling Parts of High-Temperature Bearings, Their Properties and Heat Treatment

up to 400°C, and up to 500°C if R_C was 55. The chemical composition (in %) of V7Kh4F steel is: C 0.6 - 0.7; Mn $\leq$ 0.4; Si 0.4 - 0.6; Cr 4.4 - 5.0; V 0.4 - 0.7; Mo 0.2 - 0.35; V4Kh4MF steel contains: C 0.7 - 0.8; Mn $\leq$ 0.4; Si 0.4 - 0.6; Cr 4.4 - 5.0; V 0.7 - 1.0; Mo 0.4 - 0.6. 14 bibliographical titles.

T.F.

4

Card 2/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

69281

SOV/123-59-22-91450

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 22, p 15 (USSR)

8.1120 252000

AUTHOR: Sheyn, A.S., Tsareva, A.A., Fedotova, V.D., Pavlova, Z.V.

TITLE: Steel Grades for Raceways and Rolling Bodies of High-Temperature Bearings. Their Properties and Heat Treatment

PERIODICAL: Tekhnol. podshipnikostroyeniya, 1958, Nr 17, pp 68 - 88

ABSTRACT: In connection with increasing speeds in machine construction, antrifriction bearings, formerly operating at temperatures of 100 - 120°C, have to operate now at higher temperatures. The temperature range of application of ball bearing steel grades increased up to 300 - 400°C and higher. In this connection the possibility was studied to apply the standard high-speed steel grades R9, R18, RK10, EI-347, and EI-161 for the manufacture of bearing parts. Based on experimental data obtained, the EI-347 grade steel was selected from the number of abovementioned steel grades, Investigation results are given of the mentioned steel grade, considering its application in ball bearing manufacture. The fundamental criterion in the evaluation of its properties was hot hardness. A deficiency of the EI-347 grade steel is its considerable

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69281

SOV/123-59-22-91450

Steel Grades for Raceways and Rolling Bodies of High-Temperature Bearings, Their Properties and Heat Treatment

carbide heterogeneity (although to a lesser degree than in the steel grades R9 and R18) which appears in large-size cross-sections in the form of a lattice, weakening the structural strength of the bearing parts. In order to obtain a more homogeneous, technologically suitable and cheaper steel, grades with a W-content of 1.3 - 7%, and with an increased (up to 1%) Si-content were investigated. Based on microanalysis and temperature-hardness functions, the compositions of the new ball bearing steel grades V4Kh4MF and V7Kh4F with a 4.5% and 7% W-content and suitable for an operating temperature of 400°C were found. The hot hardness of these steel grades is nearly equal to the hardness of higher alloyed high-speed steels. The new steel grades combine a low degree of alloying with a minimum carbide heterogeneity and a high resistance to heat and wear.

B.A.M.

Card 2/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

S/137/62/000/012/041/085
A006/A101

AUTHORS: Sheyn, A. S., Tsareva, A. A., Fedotova, V. D.

TITLE: Low-alloy heat-resistant steels for antifriction bearings and instruments

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 12, 1962, 68, abstract 12I403 ("Tr. Vses. n.-i. konstrukt. tekhnol. in-ta podshipnik. prom-sti", 1960, no. 2, (22) 102 - 120)

TEXT: The authors investigated the structure and the most important properties of new low-alloy heat resistant steels of type В4Х4МФ (V4Kh4MF) 0.65% C. They determined the effect of the quenching and tempering temperature, the number of tempering processes upon the hardness of type ЭИ944 (EI944) and ЭИ945 (EI945) steels. The authors studied furthermore the changes in size during heat treatment; stabilization of the structure and size, hot hardness and creep resistance; strength properties during tensile tests, torsion and impact bending; and the magnitude of contact endurance of (EI944) and (V7Kh4F) (EI945) steels, containing 0.75 and ... (?) [Abstracter's remark: omission]. The investigation

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methods are described. It is shown that low-alloy type EI944 steel has a lesser carbide heterogeneity, inparticular in large sections, and better general mechanical properties, than high-speed steel, and a relatively high heat resistance. The steel is recommended for the manufacture of bearings intended to operate at temperatures up to 400 - 450°C, and for dies.

G. Rymashevskiy

[Abstracter's note: Complete translation]

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

TSAREVA, A.A.

S/137/63/000/003/012/016
A006/A101

AUTHORS: Sheyn, A. S., Tsareva, A. A., Kabanov, M. F., Sinitsyna, T. V.

TITLE: Stainless steels for bearings intended for operation at high temperatures

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3,1963, 67, abstract 3I360 ("Tr. Vses. n.-i. konstrukt-tekhnol. in-ta podshipnik. prom-sti", 1960, no. 4, (24) 3 - 14)

TEXT: The authors studied the effect of tempering temperature ranging from 120 to 550°C and cold treatment upon hardness; hot tests were made for a_k, hardness, and scale resistance during extended time at up to 500°C; the authors determined moreover changes in the dimensions at elevated temperatures and corrosion resistance in 5%-HNO_3 and NaCl solutions at alternating immersion of steel grades X18 (Kh18), X18B2Φ (Kh18V2F), X18B4Φ (Kh18V4F), X18Φ1 (Kh18F1), X18M2Φ (Kh18M2F), X18MKΦ (Kh18MKF) (1.1% Co) and ЭИ928 (EI928) (0.89% C, 13.6% Cr, 1.23% Be, 5.85% Ni, 4.65% Co). It was established that tempering at 400°C after cold treatment yields the same hardness as tempering at 480 - 500°C

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to maximum secondary hardness; corrosion resistance in 5%-HNO_3, after tempering at 400°C, is the same as after tempering at 150°C and exceeds considerably the strength of steels tempered at 500°C. Maximum hardness for all steels, except Kh18V4F, is attained after quenching from 1,125 - 1,150°C. Increased duration of holding at 400°C promotes increase in hardness of steel. Highest hardness at temperatures up to 400°C is shown by EI928 steel, tempered at 475°C. The other steel grades, except Kh18 steel with 0.8% C, have practically the same hardness at 400°C (R_c about 55) in spite of the different degree of alloying. a_k of the investigated steels in a 20 to 400°C range does practically not change. Scale-resistance at up to 400°C is equal for all steels. Corrosion resistance of Kh18F1, Kh17MKF, Kh18M2F steels in 5% HNO_3 solution is the same as in standard Kh18 steel (a group of very resistant steels). Steel Kh18V4F has a resistance which is ten times less, and EI928 steel - hundred times less. Corrosion resistance of the steel in 3% NaCl solution is equal. EI928 and Kh18V4F steels are not recommended for the manufacture of stainless heat resistant bearings, intended for operation in HNO_3 and its vapors; it is expedient to use Kh18 steel. Heat treatment of bearing parts should consist of preheating at 850°C, final heating to 1,150°C in a salt bath for 20 sec per 1 mm section or to 1,070 -

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

Stainless steels for bearings intended for...

S/137/63/000/003/012/016
A006/A101

1,100°C in an electric furnace for 1.0 - 1.5 min per 1 mm section; quenching; cold treatment at -70°C for 1 hour; tempering at 400°C for 5 hours. To manufacture bearing parts operating at -200 to +100°C, Kh18 steel is recommended with a higher content of C (1.25%). After cold treatment and tempering at 120°C, R_c of this steel is 63 - 64.

N. Kalinkina

[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

S/276/63/000/003/002/006
A004/A127

AUTHORS: Sheyn, A. S., Tsareva, A. A., Kabanov, M. F., Sinitsyna, T. V.

TITLE: Stainless steels for bearings intended for operation at elevated temperatures

PERIODICAL: Referativnyy zhurnal, Tekhnologiya mashinostroyeniya, no. 3, 1963, 58, abstract 3B248 ("Tr. Vses. n.-i. konstrukt.-tekhnol. in-ta podshipnik, prom-sti", 1960, no. 4, (24), 3 - 14)

TEXT: Hardness tests were carried out after tempering at temperatures in the range of from 120 to 550°C. Heat tests were performed in the temperature range of 20 - 500°C, testing the notch toughness, hardness and scale resistance at long-time holding. Dimensional changes were tested at maximum operating temperatures, while the corrosion resistance was tested in aggressive media (5% HNO_3 solution, alternative dipping; 5% NaCl solution, alternative dipping). As a result of testing eight alloys it was found that, for the manufacture of bearings operating at temperatures of up to 400°C, it is expedient of using the 18 (Kh18) steel

Card 1/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

S/276/63/000/003/002/006
A004/A127

Stainless steels for bearings .....

The following heat treatment is recommended: Preheating up to 850°C final heating (in a salt bath) up to 1,150°C, 20 sec holding per 1 mm of cross section; heating in an electric furnace with air atmosphere up to 1,070 - 1,100°C, 1 - 1.5 minutes holding per 1 mm of cross section, cold treatment (slow cooling of the components down to -70 - 80°C, holding at -70°C for 30 - 60 minutes, heating up to the shop temperature in the air), one single tempering at 400°C for 5 hours. For the manufacture of bearing parts operating at temperatures from -200 to +100°C, a steel is recommended which, in comparison with the Kh18 grade steel, has a higher C-content. After cold treatment and tempering at 120°C, a hardness of HRC 63 - 64 could be obtained. For manufacturing heat-resistant bearings, operating in an oxidizing atmosphere and in media containing NaCl, ЭИ928 (EI928) steel can be used. There are 15 figures.

T. Kislyakova

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

DUBROVKIN, V.L.[deceased]; CHEKLINA, Ye.A.; VIN[illegible]VA, Ye.A.; TSAREVA, A.M.; POPOV, V.V., prof., red.

[Engineering geology characteristics of loess in the Kursk Magnetic Anomaly] Inzhenerno-geologicheskaia kharakteristika lessovykh porod territorii KMA [By] V.L.Dubrovkin i dr. Moskva, Nedra, 1964. 198 p. (MIRA 18:2)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii i inzhenernoy geologii.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756920006-5

YERSHOV, F.I.; TSAREVA, A.A.

Site of synthesis of the Venezuelan equine encephalomyelitis virus. Vop. virus. 10 no.3:349-351 My-Je '65. (MIRA 18:7)

1. Institut virusologii imeni Ivanovskogo AMN SSSR, Moskva.

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YERSHOV, F.I.; ZHDANOV, V.M.; TSAREVA, A.A.

Multiplication of the Venezuelan equine encephalomyelitis virus in cells treated with actinomycin D. Antibiotiki 10 no.3: 250-255 Mr '65. (MIRA 18:10)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva.

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PURPOSE: This collection of articles is intended for technical personnel interested in recent studies and developments of vacuum steelmaking practice and equipment.

COVERAGE: The book contains information on steel melting in vacuum induction furnaces, and vacuum arc furnaces, reduction processes in vacuum, and degassing of steel and alloys. The functioning of apparatus and equipment, especially vacuum furnaces and vacuum booster pumps is also analyzed. Personalities are mentioned in connection with some of the articles and will appear in the Table of Contents. Three articles have been translated from English. Some of the

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