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furan series. V. I. Itinskiy (NIIPM) reported on physicochemical processes taking place in the manufacture of plastics and plastic concrete. Considerable interest was raised by a lecture of S. S. Davydov, Vice-President of the Academy of Building and Architecture USSR, on "Reinforced plastic concrete and its prospects". N. A. Moshchanskiy (Institut betona i zhelezobetona) (Institute of Concrete and Reinforced Concrete) presented data characterizing plastic concrete as a material resistant to aggressive media used in chemical engineering. A. A. Sapunov (Academy of Building and Architecture USSR) reported on the use of plastic concrete for underground buildings. The director of the Ferganskiy gidrolizny zavod (Fergana Hydrolytic Factory), I. K. Cheremukhin, spoke on the improvement of the manufacture of the ФА (FA) monomer. I. M. Yelshin stressed the economic usefulness of producing wear-resistant coatings in hydraulic engineering. Plastic concrete coatings laid in 1959 at two waterfalls in the Uzbekskaya SSR showed unchanged hydrotechnical properties after the floods of 1960. N. N. Oster-Volkov (NIIPM) reported on the success achieved in the application of plastic concrete for the protection of hydrolytic apparatus from corrosion. Research work done from 1959-1960 by SOYUZDORNII and the dorozhnyy institut (Institute of Road Building) of

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B110/B201

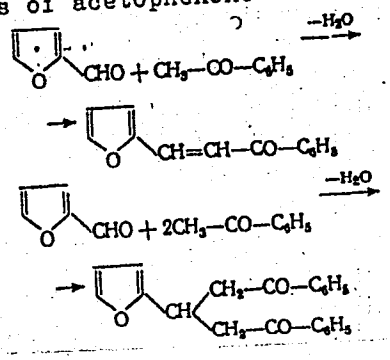
15.8130

AUTHORS: Kamenskiy, I. V., Itinskiy, V. I., Teplov, N. Ye. Andrianov, B. V.

TITLE: Synthesis and study of monomeric and polymeric reaction products of acetophenone with furfurole

PERIODICAL: Plasticheskiye massy, no. 8, 1961, 12 - 15

TEXT: Reaction products of acetophenone with furfurole are as follows:



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Synthesis and study of monomeric...

(II) is obtained with considerable excess of acetophenone only. (I) is prepared by condensation of equimolecular amounts of furfurole and acetophenone by means of sodium ethylate in alcohol in a yield of 60 - 80 %. In consideration of the fact that the production of resins by means of benzene sulfonic acid catalysts and resulting resin products had been hitherto insufficiently described, their description was the aim of the present work. The authors used (1) furfurole, (2) acetophenone. The polymers were obtained (I) directly from the reaction mass without separation from monofurfurylidene acetophenone (MFAP), (II) by way of resinification of MFAP. The product produced by Harvey's method (Ref. 8: USA Patent 2,461,510 (1949)) loses fluidity on the passage to the B stage. Hardening takes place at 250°C during 30 minutes with the separation of 50 % of volatile parts. The authors washed the reaction mass with cold water, dried it at 100°C and 15 mm Hg during 3 hr, thus obtaining a brown oily liquid. A vacuum distillation yielded: 14 % furfurole, 16 % acetophenone, 60 % MFAP, 10 % resin. After 3.5 hr of heating at 250°C a fusible black resin (dropping point 65°C) was obtained. On addition of 5 % benzene sulfonic acid (50 % acetone solution) the resin is hardened during 19 minutes at 250°C under separation of 40 % of volatile parts and

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formation of foaming products. Table 1 shows that in MFAP production under optimum, equimolecular conditions, a temperature drop (experiments 1 - 5) reduces the resin formation and at the same time retards the MFAP formation. An increase of the catalyst amount (experiments 4,6,7,9-12) and a concentration increase of its aqueous solution (experiments 10 - 11), however, speed it up. At room temperature (experiments 8 - 12), MFAP is obtained without resin. 20 g KOH in 20 g H_2O were added by drops to 96 g furfurole and 120 g acetophenone within 20 - 30 minutes, neutralized with 0.5 N HCl, washed with H_2O until Cl^- ions were removed completely, and dried in vacuum. MFAP is bright-yellow, fine-crystalline with the melting point 41.8°C, and 89 % of the theoretical yield, soluble in all organic solvents (to 12 % in petroleum ether). Its specific gravity was 1.1120, the boiling point 186°C at 11 mm Hg, 181°C at 9 mm Hg. The molecular weight, cryoscopically determined in dioxan was 196.8, the oxime number was 560, since benzylidene acetophenone compounds add two hydroxyl amine molecules. Resinification took place (I) thermally, (II) in the presence of a catalyst. According to Table 3, resinification takes place at high temperatures (250°C) with 95 - 97 % yield. Since benzene sulfonic acid (BSA) and H_2SO_4

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(Table 4)dissolve in the monomer, the latter was heated to 80° C in a three-necked flask, and 1 - 5 % catalyst was added under vigorous stirring. The resin obtained in a yield of 98 % was brittle at room temperature. 0.25 M (49.5 g) monomer in 100 ml toluene yielded with 5 % BSA (referred to the monomer) a viscous, rubber-like mass which gradually hardened to a non-melting, unsoluble polymer. All resins were black, with a shining surface, and a specific gravity of 1.1 - 1.5. The dropping point of the resin obtained without BSA was 71°C; that of resin prepared with 1 % BSA was 78°C. The resins were found to be well soluble in benzene, its derivatives, dioxan, chlorohydrocarbon, various ketones (cyclohexanone), scarcely in alcohols and ethers. Fractionating allowed recognizing a polydisperse character. Four fractions were separated from a 10 % acetone solution: (1) insoluble residue, (2) and (3) were separated by addition of 10 ml H_2O to a 100 ml solution, (4) by means of 1000 ml H_2O. Infrared spectra for resins produced without (I) and with (II) catalyst yielded CO bands (1685 1665 cm^{-1}) and double bond bands (1647 - 1621 cm^{-1}) in the conjugate -C=C-O-system. The double bond peaks were, however, found to be weaker particularly with (I). The peak of ethylene bond(1285 - 1310 cm^{-1}) exists only with monomer and (II). The absorption band of the furan ring

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Synthesis and study of monomeric...

(1131 - 1189 cm^{-1}) is weaker with (I) and (II) than with the monomer. The peaks of the benzene nucleus (1110 - 1070 cm^{-1}) appear in the three spectra, whereas the furan ring bound in $\alpha\alpha'$-position (1378 cm^{-1}) was found only with (I) and (II). There are 1 figure, 5 tables, and 15 references: 6 Soviet-bloc and 9 non-Soviet-bloc. The references to English-language publications read as follows: Ref. 7: US Patent 2,461,508 (1949); Ref. 8: US Patent 2,461,510 (1949); Ref. 9: US Patent 2,768,408 (1956)

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15.8130

AUTHORS: Kamenskiy, I. V., Peshekhonova, A. L., Itinskiy, V. I.

TITLE: Furfural- and hexamethylentetramine-base resins

PERIODICAL: Plasticheskiye massy, no. 10, 1961, 15-19

TEXT: A short review of different methods for obtaining furfural resins and a report on the production of resins from commercial furfural (boiling point, 158-162°C, d_{20}^{20} = 1.1514, h_D^{20} = 1.5280) and hexamethylentetramine (purity, 98.5 %) are given. At a ratio of 3-8 moles of furfurole per mole of hexamethylentetramine, a fusible and soluble resin forms within 5-12 hr, according to the ratio. It becomes infusible and insoluble at temperatures ≥250°C within 3-3.5 min. The optimum ratio with 100 % yield is 6 : 1. This polymer is termed ФГ-1 (FG-1) resin (molecular weight, 350; hardening within 2 min at 250°C). Moreover, another resinous product (95 % yield) was synthetized at a ratio of 15 : 1 (viscosity: 40-45 sec in the ВЗ-4 (VZ-4) viscosimeter). On thermal treatment, the volatile products are distilled off, and a hard, brittle,

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black resin is obtained, which dissolves readily in acetone, partially in alcohol, and is insoluble in water. Further heating makes it insoluble and infusible. This product is termed ФГ-2 (FG-2) (molecular weight, 452; hardening within 4 min at 250°C). Solvents for both resins are: acetone, furfural, ethyl cellosolol, furyl alcohol, dioxane and acetic acid. Residual hexamethylenetetramine was with water, residual furfural with petroleum ether. They were dried, purified with ethyl alcohol, extracted in acetone, dissolved in dioxane and precipitated with water. The following fractions were obtained by successive dissolution in ethanol, acetone, and dioxane and precipitating with water:

solvent	percentage of the fraction in FG-1	in FG-2
ethanol	24.20	10.55
acetone	36.50	51.70
acetone (fraction 3)	-	18.30
dioxane	28.40	17.40
dioxane (fraction 4)	9.15	-

Molding powder was produced from FG-2. Kaolin impregnated with a 50 %

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Furfural- and hexamethylentetramine-base...

solution of FG-2 in acetone served as filler. The heat resistance was determined by means of S. N. Zhurkov's device (Trudy I i II konferentsii VMS (Papers of the First and the Second Conference on High-molecular Compounds), Izd. AN SSSR, 1945). Optimum method: Heating of the molding powder at 120°C for 2.5 hr; tableting under 1250 kg/cm^2; before pressing, heating at 200°C (1-2 min per mm of tablet thickness), pressing at 300°C and 250-300 kg/cm^2. A heat resistance of up to 400°C (0.055 % deformation) has been found. FG-2 plastics are stable in 40 % NaOH, 50 % H_2SO_4, but are destroyed by 58 % HNO_3. The water absorption was 0.65 % in cold water (24 hr), and 0.432 % in boiling water (30 min). Glass-reinforced СФГ-2 (SFG-2) plastics were made with Т-90 п/з (T-90 p/z) glass fabric containing 2.5 % paraffin lubricant. Glass fabric was impregnated with a 45 % FG-2 solution in acetone, and dried for 24 hr at room temperature. Then, it was heated at 120°C for 2.5 hr, and pressed at 300°C and 10 kg/cm^2. The impact strength of the glass-reinforced plastic was 260 kg·cm/cm^2, and the static bending strength was 2073-2380 kg/cm^2. Combination with epoxy resins is recommended to prevent the lamination observed. The dielectric constant of SFG-2 was 4.9-5.2 between 20 and 300°C. As compared with

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Furfural- and hexamethylentetramine-base...

bakelite powder, the use of FG-2 as a binding agent for quartz sand in the manufacture of molds for precision casting resulted in a reduced separation of gas (11.4 cm^3). Hu Lan-chieh assisted in the experiments. There are 4 figures, 6 tables, and 17 references: 4 Soviet and 13 non-Soviet. The two most recent references to English-language publications read as follows: G. Mains, M. Phillips, Chem. Met. Eng., 24, 661 (1921); US Patent 1909784.

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITINSKIY, V.I.

Plastic concrete and reinforced plastic concrete in agriculture.
Plast.massy no.11:72 '61. (MIRA 14:10)
(Plastic) (Concrete) (Farms--Equipment and supplies)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

KAMENSKIY, I.V.; ITINSKIY, V.I.; KUZNETSOV, A.N.

Polymers on the basis of condensation products of furfurole with acetone. Copolymers of difurfurylidereacetone with methyl methacrylate and styrene. Plast. massy no.12:21-22 '62. (MIRA 16:1)

(Pentadienone) (Methacrylic acid) (Styrene)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

KAMENSKIY, I.V.; VOROB'YEV, B.P.; ITINSKIY, V.I.; OSTER-VOLKOV, N.N.

Polymers based on the condensation products of furfurole with acetone. Plastic materials based on difurfurylideneacetone. Plast. massy no.3:17-19 '63. (MIRA 16:4)

(Plastics) (Butenone)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

[illegible]

[illegible] NR: AP500819 S/0286/65/000/005/0069/0069

[illegible]: Itinskiy, V. I.; [illegible]-Volkov, N. N.; Kargin, S. I. 20

[illegible] A method for producing plastics. Class 39, No. 168870 5

[illegible] Byulleten [illegible] tovarnykh znakov, no. 5, 1965, 69

[illegible] plastic, resin, [illegible]

[illegible] This Author certificate presents a method for producing plastics from [illegible], furan resins, and mineral fillers. In order to increase the mechanical [illegible] temperatures, the mineral filler is treated

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ordinary methods.

ASSOCIATION: none

SUBMITTED: 28Jan56 ENCL: 00 SUB CODE: MT

NO REF SOV: 000 OTHER: 000

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[illegible]

[illegible] S/0286/[illegible]/000/005/[illegible]/0070

[illegible] Kamenskiy, I. V.; Itinskiy, V. [illegible] Khavskiy, [illegible]

[illegible] ns from furfuryl alcohol. Class. [illegible]

[illegible] Tovarnykh znakov, no. [illegible]

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 70

[illegible]

[illegible] presents a method for producing [illegible] small quantities of [illegible] anhydride. [illegible] with high thermal stability, the [illegible] hydrazine.

[illegible]

[illegible] ENCL: 00 [illegible]

[illegible] OTHER: 000

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L 22744-66 EWT(m)/EWP(j) IJP(c) RM

ACC NR: AP6006353 (A) SOURCE CODE: UR/0413/66/000/002/0093/0093

AUTHOR: Kamenskiy, I. V.; Lapitskiy, V. A.; Ukhinov, V. A.; Lomov, Yu.M.; Itinskiy, V. I.

ORG: none

TITLE: Modification of rubber. Class 39, No. 178093

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 93

TOPIC TAGS: rubber, furan resin, thermomechanical property, chemical resistant material

ABSTRACT: This Author Certificate describes a method for modifying rubber by combining it with resins. To raise both the thermal and chemical resistance of the final product, the use of a resin of the furan series containing an ionic-type catalyst is suggested. The reaction mixture is subjected to thermal treatment at 80--200C. Organic sulfonic acids, metal chlorides and mineral acids are proposed for use as catalysts. [LD]

SUB CODE: 11/ SUBM DATE: 23Jan63

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKES, B. M.

Penicillin - Therapeutic Use

Penicillin autohemotherapy of gonorrhea. Vest. ven. i derm. No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1953/2 Unclassified.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKES, G. N.

ITKES, G.N., kandidat meditsinskikh nauk (Pyatigorsk)

Balneotherapy of gastric and duodenal ulcers at mineral spring resorts in the Caucasus. Klin. med. 32 no.4:59-64 Ap '54. (MIRA 7:7)

1. Iz Pyatigorskogo sanatoriya No.30 VTsSPS (glavnyy vrach Ye.S.Kelina, konsul'tant G.N.Itkes)
(BALNEOLOGY, in various diseases,
*Caucasus mineral water in peptic ulcer)
(PEPTIC ULCER, therapy,
*balnoother. with Caucasus mineral water)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKES, Grigoriy Naumovich

[Treatment of gastric and duodenal ulcer at Caucasian mineral water health resorts] Lechenie bol'nykh iazvennoi bolezn'iu zheludka i 12-perstnoi kishki na kurortakh Kavkazskikh mineral'nykh vod. Izd.2., dop. Stavropol', Stavropol'skoe knizhnoe izd-vo, 1958. 75 p. (MIRA 13:4)

(PEPTIC ULCER) (CAUCASUS--MINERAL WATERS)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKES, G.N.; KHARCHENKO, L.I., red.; STEBLYANKO, T.V., tekhn. red.

[Treatment of patients with peptic and duodenal ulcers at the Caucasian Mineral Water Health Resorts] Lechenie bol'nykh iazvennoi bolezn'iu zheludka i 12-perstnoi kishki na kurortakh Kavkazskikh Mineral'nykh Vod. Izd. 3., dop. Stavropol', Stavropol'skoe knizhnoe izd-vo, 1961. 76 p. (MIRA 16:6)
(CAUCASUS, NORTHERN--HEALTH RESORTS, WATERING PLACES,ETC.)
(PEPTIC ULCER)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

VERTSMAN, G.Z., kand. tekhn. nauk; PANTELEYEV, P.I., kand. tekhn. nauk; GOMOLYAKO, I.M.; TAL', K.K.; GUSEVA, K.G.; LUGOVOY, P.A.; MASSAN, A.M.; GALKIN, N.V.; SAFRYGINA, G.M.; CHESNOKOV, D.S.; DROZDKOV, V.I.; IZYUMOV, P.S.; ZAK, B.O.; KOROGID, P.Ye.; MAKSIMOVICH, L.N.; ZBOROVSKAYA, M.I.; PAVLOVSKAYA, S.A.; BORISOV, A.V.; SELIVANETS, N.Ye.; ITKES, V.M.; YATSKEVICH, Ya.D.; KOZYRSKIY, N.P.; NIKITIN, V.D.; NEKLEPAYEVA, Z.A., inzh., red.; MEDVEDEVA, M.A., tekhn.red.

[Design and planning of railroad stations and junctions] Proektirovanie zheleznodorozhnykh stantsii i uzlov; spravochnoe i metodicheskoe proizvodstvo. Moskva, Transzheldorizdat, 1963. 443 p. (MIRA 16:12)

1. Nauchno-issledovatel'skiy institut transportnogo stroitel'stva (for Guseva). 2. Gosudarstvennyy institut tekhniko-ekonomicheskikh izyskaniy i proyektirovaniya zheleznodorozhnogo transporta (for Zak). 3. Kiyevskiy gosudarstvennyy proyektno-izyskatel'skiy institut (for Kozyrskiy). 4. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta im. I.V. Stalina (for Nikitin).

(Railroad engineering)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

BOGUSLAVSKIY, L.; ITKIN, A.

Economizers for apartment-house boiler units operating on gas.
Zhil-komm.khoz. 9 no.3:25-26 '59. (MIRA 12:5)
(Boilers)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, A.A.

KUZNETSOV, D.A.; ITKIN, A.A. [authors]; BASOV, M.I., kandidat tekhnicheskikh nauk [reviewer].

"Repeated repair of a tool." D.A.Kuznetsov, A.A.Itkin. Reviewed by M.I. Basov. Avt.trakt.prom. no.8:32-33 of cover Ag '53. (MLRA 6:8)

1. Orgavtoprom (for Basov). (Machine tools) (Kuznetsov, D.A.) (Itkin, A.A.)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, A. A., GUSMAN, S. M. and KARAMOV, K. S.

"Case of Defect in the Aortal Valves of Traumatic Origin" - p. 37

Voyenno Meditsinskiy Zhurnal, No. 10, 1962

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

YAKOVLEV, S.V., doktor tekhn. nauk; KALITSUN, V.I., kand. tekhn. nauk; ITKIN, A.L., inzh.

Sedimentation of waste waters in chambers. Vod. i san. tekh. no.1:12-14 Ja '66. (MIRA 19:1)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, A.L.

KUZNETSOV, D.I.; ITKIN, A.L.; SOROKA, M.S., redaktor; RUDENSKIY, Ya.V., tekhnicheskiy redaktor

[Repeated reconditioning of tools and instruments] Mnogokratnoe vosstanovlenie instrumenta. 2-e izd., ispr. i dop. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, Ukrainskoe otd-nie, 1955. 196 p. (MLRA 8:8)

(Tools) (Instruments)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, A.L., inzh.

Technical and economic factors involved in planning assembly and manufacture shops. Trakt. i sel'khozmash. no.5:42-45 My '59. (MIRA 12:6)

(Agricultural machinery industry)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

KUZNETSOV, Dmitriy Ivanovich; ITKIN, Abram L'vovich; DASHEVSKIY, I.I., retsenzent; CHISTYAKOVA, L.G., inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Repeated reconditioning of metal-cutting tools] Mnogokratnoe vosstanovlenie instrumentov. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 277 p. (MIRA 14:6)
(Metal-cutting tools)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, Abram L'vovich; AFANAS'YEV, V.F., kand. tekhn. nauk, dots., retsenzent; CHISTYAKOVA, L.G., inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Manufacture and use of hard-alloy metal-cutting tools] Izgotovlenie i ekspluatatsiia tverdosplavnogo rezhushchego instrumenta. Moskva, Mashgiz, 1962. 119 p. (MIRA 15:7)
(Metal-cutting tools)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, A.L.; VOROBEYCHIK, M.B.

Determining the economic expediency of the organization of tractor assembly plants. Trakt. i sel'khozmash. 33 no.12:34-35 D '63. (MIRA 17:2)

1. Gosudarstvennyy institut po proyektirovaniyu traktornoy promyshlennosti i sel'skokhozyaystvennogo mashinostroyeniya.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

MUKHORTOV, Vladimir Il'ich, starshiy nauchnyy sotr.; ITKIN, Aron Mikhaylovich, starshiy zootekhnik; KANDYBIN, M., red.; IVANOV, N., tekhn. red.

[Landrace swine] Svin'i landras. Kaluga, Kaluzhskoe knizhnoe izd-vo, 1960. 48 p. (MIRA 14:9)

1. Sovkhoz "Kudinovo", Maloyaroslavetskogo rayona (for Itkin).
2. Kaluzhskaya sel'skokhozyaystvennaya opytnaya stantsiya (for Mukhortov).

(Swine breeds)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, B.A., inzh.

Quantitative evaluation of the reliability of electrical machines. Vest. elektroprom. 34 no.8:79-80 Ag '63. (MIRA 16:9)
(Electric machinery industry--Quality control)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

YEL'TSOV, Sergey Grigor'yevich, prof.; ITKIN, B.Z., dots.; KHARCHENKO, M.D., dots.; SOROKOVOY, P.F., kand. veterinarnykh nauk.; SOLOVEY, A.S., red.; ZUBRILINA, Z.P., tekhn. red.

[Operative surgery with the principles of the topographical anatomy of domestic animals] Moskva, Izd-vo sel'khoz. lit-ry, 1958. 375 p. (MIRA 11:12)

(Veterinary surgery)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, B.Z.; LIBERMAN, D.Kh., inzh., retsenzent; VAKHONIN, L.N., inzh., red.

[Potentials of improvement in the manufacture of beds] Rezervy krovatnogo proizvodstva. Sverdlovsk, TSentr.biuro tekhn.informatsii, 1959. 32 p. (MIRA 14:4)

1. Russia (1917- R.S.F.S.R.) Sverdlovskiy ekonomicheskiy administrativnyy rayon. Sovet narodnogo khozyaystva.
(Beds and bedsteads) (Metalwork)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, B. Z.

27279

Dyechniye Ran "Tryefoni? Ovannoy" Syvorotkoy. Avtoryefyerat. Vyetyeinariya, 1949, No 9, S. 38-41.

SO: LETOPIS NO. 34

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

YERSHOV, V.S., prof., doktor veter.nauk; ZHURAVEL', A.A., prof., doktor veter.nauk; PREOBRAZHENSKIY, N.M., dotsent, kand.veter.nauk; YEL'TSOV, S.G., prof., doktor veter.nauk; ITKIN, B.Z., dotsent; NOSKOV, N.M., dotsent, kand.veter.nauk; YEMEL'YANOVA, N.I., red.; BALLOD, A.I., tekhn.red.

[Principles of veterinary medicine] Osnovy veterinarii. Izd.2., ispr. i dop. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 437 p. (MIRA 13:10)

1. Direktor Vsesoyuznogo instituta gel'mintologii im. K.I.Skryabina (for Yershov). 2. Zaveduyushchiy kafedroy fiziologii Leningradskogo veterinarnogo instituta (for Zhuravel'). 3. Moskovskaya veterinarnaya akademiya (for Preobrazhenskiy). 4. Zaveduyushchiy kafedroy operativnoy khirurgii Moskovskoy veterinarnoy akademii (for Yel'tsov). 5. Zaveduyushchiy kafedroy epizootologii Orenburgskogo sel'skokhozyaystvennogo instituta (for Noskov).
(Veterinary medicine)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, B.Z., dotsent

Methods for continuous taking of lymph from domestic animals. Veterinariia 38 no.7:71-74 Jl '61. (MIRA 16:8)

1. Moskovskaya veterinarnaya akademiya.
(Lymph)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, I.A., inzh. (Krasnodar)

Assembling sanitary equipment of three-dimension elements in apartment houses. Vod. i san. tekh. no.1:23-25 Ja '66. (MIRA 19:1)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, I.M.

ANDREYEV, A.B.; ANTONOV, A.I.; ARAPOV, P.P., BARMASH, A.I., BEDNYAKOVA, A.B.; BEMIN, G.S.; BERESNEVICH, V.V.; BERNSHTEYN, S.A.; BITYUTSKOV, V.I.; BLYUMENBERG, V.V.; BONCH-BRUYEVICH, M.D.; BORMOTOV, A.D.; BULGAKOV, N.I.; VEKSLER, B.A.; GAVRILENKO, I.V.; GENDLER, Ye.S., [deceased]; GERLIVANOV, N.A., [deceased]; GIBSHMAN, Ye.Ye.; GOLDOVSKIY, Ye.M.; GORBUNOV, P.P.; GORYALOV, F.A.; GRINBERG, B.G.; GRYUNER, V.S.; DANOVSKIY, N.F.; DZEVUL'SKIY, V.M., [deceased]; DREMAYLO, P.G.; DYBETS, S.G.; D'YACHENKO, P.F.; DYURMBAUM, N.S., [deceased]; YEGORCHENKO, B.F. [deceased]; YEL'YASHKEVICH, S.A.; ZHEREBOV, L.P.; ZAVEL'SKIY, A.S.: ZAVEL'SKIY, F.S.; IVANOVSKIY, S.R.; ITKIN, I.M.; KAZHDAN, A.Ya.; KAZHINSKIY, B.B.; KAPLINSKIY, S.V.: KASATKIN, F.S.; KATSAUROV, I.N.; KITAYGORODSKIY, I.I.; KOLESNIKOV, I.F.; KOLOSOV, V.A.; KOMAROV, N.S.; KOTOV, B.I.; LINDE, V.V.; LEBEDEV, H.V.; LEVITSKIY, N.I.; LOKSHIN, Ya.Yu; LUTTSAU, V.K.; MANNERBERGER, A.A.; MIKHAYLOV, V.A.; MIKHAYLOV, N.M.; MURAV'YEV, I.M.; NYDEL'MAN, G.N.; PAVLYSHKOV, L.S.; POLUYANOV, V.A.; POLYAKOV, Ye.S.; POPOV, V.V.; POPOV, N.I.; RAKHLIN, I.Ye., RZHEVSKIY, V.V.; ROZENBERG, G.V.; ROZENTRETER, B.A.; ROKOTYAN, Ye.S.; RUKAVISHNIKOV, V.I.; RUTOVSKIY, B.N. [deceased]; RYVKIN, P.M.; SMIRNOV, A.P.; STEPANOV, G.Yu, STEPANOV, Yu.A.; TARASOV, L.Ya.; TOKAREV, L.I.; USPASSKIY, P.P.; FEDOROV, A.V.; FERE, N.E.; FRENKEL', N.Z.; KHEYFETS, S.Ya.; KHLOPIN, M.I.; KHODOT, V.V.; SHAMSHUR, V.I.; SHAPIRO, A.Ye.; SHATSOV, N.I.; SHISHKINA, N.N.; SHOR, E.R.; SHPICHENETSKIY, Ye.S.; SHPRINK, B.E.; SHTERLING, S.Z.; SHUTYY, L.R.; SHUKHGAL'TER, L. Ya.; EHVAYS, A.V.;

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ANDREYEV, A.B. (continued) .... Card 2.

YAKOVLEV, A.V.; ANDREYEV, Ye.S., retsenzent, redaktor; BEKKER-GEYM, B.M., retsenzent, redaktor; BERMAN, L.D., retsenzent, redaktor; BOLTINSKIY, V.N., retsenzent, redaktor; BONCH-BRUYEVICH, V.L., retsenzent, redaktor; VELLER, M.A., retsenzent, redaktor; VINOGRADOV, A.V., retsenzent, redaktor; GUDTSOV, N.T., retsenzent, redaktor; DEGTYAREV, I.L., retsenzent, redaktor; DEM'YANYUK, F.S., retsenzent; redaktor; DOBROSMYSLOV, I.N., retsenzent, redaktor; YELANCHIK, G.M. retsenzent, redaktor; ZHEMOCHKIN, D.N., retsenzent, redaktor; SHURAVCHENKO, A.N., retsenzent, redaktor; ZLODEYEV, G.A., retsenzent, redaktor; KAPLUNOV, R.P., retsenzent, redaktor; KUSAKOV, M.M., retsenzent, redaktor; LEVINSON, L.Ye., [deceased] retsenzent, redaktor; MALOV, N.N., retsenzent, redaktor; MARKUS, V.A. retsenzent, redaktor; METELITSYN, I.I., retsenzent, redaktor; MIKHAYLOV, S.M., retsenzent; redaktor; OLIVETSKIY, B.A., retsenzent, redaktor; PAVLOV, B.A., retsenzent, redaktor; PANYUKOV, M.P., retsenzent, redaktor; PLAKSIN, I.N., retsenzent, redaktor; RAKOV, K.A. retsenzent, redaktor; RZHAVINSKIY, V.V., retsenzent, redaktor; RINBERG, A.M., retsenzent; redaktor; ROGOVIN, N. Ye., retsenzent, redaktor; RUDENKO, K.G., retsenzent, redaktor; RUTOVSKIY, B.N., [deceased] retsenzent, redaktor; RYZHOV, P.A., retsenzent, redaktor; SANDOMIRSKIY, V.B., retsenzent, redaktor; SKRAMTAYEV, B.G., retsenzent, redaktor; SOKOV, V.S., retsenzent, redaktor; SOKOLOV, N.S., retsenzent, redaktor; SPIVAKOVSKIY, A.O., retsenzent, redaktor; STRAMENTOV, A.Ye., retsenzent, redaktor; STRELETSKIY, N.S., retsenzent, redaktor;

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ANDREYEV, A.V.,(continued) .... Card 3.

TRET'YAKOV, A.P., retsenzent, redaktor; FAYERMAN, Ye.M., retsenzent, redaktor; KHACHATYROV, T.S., retsenzent, redaktor; CHERNOV, H.V., retsenzent, redaktor; SHERGIN, A.P., retsenzent, redaktor; SHESTOPAL, V.M., retsenzent, redaktor; SHESHKO, Ye.F., retsenzent, redaktor; SHCHAPOV, N.M., retsenzent, redaktor; YAKOBSON, M.O., retsenzent, redaktor; STEPANOV, Yu.A., Professor, redaktor; DEM'YANYUK, F.S., professor, redaktor; ZNAMENSKIY, A.A., inzhener, redaktor; PLAKSIN, I.N., redaktor; RUTOVSKIY, B.N. [deceased] doktor khimicheskikh nauk, professor, redaktor; SHUKHGAL'TER, L. Ya, kandidat tekhnicheskikh nauk, dotsent, redaktor; BRESTINA, B.S., redaktor; ZNAMENSKIY, A.A., redaktor.

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ANDREYEV, A.V. (continued) .... Card 4.

[Concise polytechnical dictionary] Kratkii politekhnicheskii slovar'. Redaktsionnyi sovet: IU.A.Stepanov i dr. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1955. 1136 p. (MLRA 8:12)

1. Chlen-korrespondent AN SSSR (for Plaksin)
(Technology--Dictionaries)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, L.M.

VOYTASHEVSKIY, D.A., kandidat tekhnicheskikh nauk; RUDNEV, S.S., kandidat tekhnicheskikh nauk, redaktor; ITKIN, L.M., inzhener, zaveduyushchiy redaktsiyey; MODEL', B.I., tekhnicheskiy redaktor; TIKHONOV, A.Ya., tekhnicheskiy redaktor.

[Calculation and investigation of hydraulic turbine cascades] Raschety i issledovaniia gidrodinamicheskikh reshetok. Gos. nauchno-tekhnicheskoe izdatel'stvo mashinostroitel'noi lit-ry. Moskva, 1953. 86 p. (Vsesoyuznyi nauchno-issledovatel'skii institut gidromashinostroeniia. Trudy, no.16). (MIRA 10:7)

(Hydraulic turbines)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

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KATSENELENBAUM, Zakhariy Solomonovich, prof.; YAKOVLEV, A.I., inzh., retsenzent; ITKIN, I.M., inzh., red.; SALYANSKIY, A.A., tekhn.red.

[Fixed and working capital of the machinery manufacturing industry] Osnovnye i oborotnye sredstva v mashinostroenii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 174 p. (MIRA 12:1)

(Machinery industry)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

DANILEVSKIY, Vladimir Viktorovich; ITKIN, I.M., nauchnyy red.; LITVAK, D.S., red.; RAKOV, S.I., tekhn.red.

[Reference book for the young mechanical engineer] Spravochnik molodogo tekhnologa-mashinostroitelia. Moskva, Vses.uchebno-pedagog.izd-vo Trudrezervizdat, 1958. 414 p. (MIRA 12:3)
(Mechanical engineering--Handbooks, manuals, etc.)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, I.M.

Using abrasive bands. Mashinostroitel' no.4:42-43 Ap '62.
(MIRA 15:5)

(Abrasive wheels)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

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TAGIROV, Salikh Mikhaylovich; CHERNYAGIN, B.M., kand.tekhn.nauk, retsenzent; ITKIN, I.M., inzh., red.; AKIMOVA, A.G., red. izd-va; CHERNOVA, Z.I., tekhn.red.

[Construction and assembling of watches] Konstruktsiia i tekhnologiia sborki mekhanicheskikh chasov. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 243 p. (MIRA 13:11)

(Clockmaking and watchmaking)

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DANILEVSKIY, Vladimir Viktorovich; ITKIN, I.M., nauchnyy red.; LITVAK, D.S., red.; TOKER, A.M., tekhn. red.

[Handbook for young technologists and mechanical engineers] Spravochnik molodogo tekhnologa-mashinostroitelia. Izd.2., ispr. Moskva, Vses. uchebno-pedagog. izd-vo Proftekhizdat, 1960. 414 p. (MIRA 15:4)
(Mechanical engineering)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, I.M.

Polishing machines and attachments. Mashinostroitel' no.5:44-45 My '62. (MIRA 15:5)

(Grinding machines)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

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ZAKHARENKO, Nikolay Nikolayevich; ITKIN, Lev Mendeleyevich; KRISHTAL', L.I., red.

[Ways to increase labor productivity in railroad transportation] Puti povysheniia proizvoditel'nosti truda v khoziaistve dvizheniia. Moskva, Transport, 1964. 151 p. (MIRA 17:12)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

BRONSHTEYN, Ye.I.; ITKIN, L.Ye.

Unstable complete atrioventicular block accompanied by frequent AdamsOStokes attacks. Zdravookhraneniye 6 no.2:52-54 Mr-Ap'63. (MIRA 16:10)

1. Iz 2-oy gorodskoy bol'notsy g. Bel'tsy (glavnyy vrach I.N.Sarukhanova).

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ITKIN, M. E., Engineer

USSR

"The Wear of Alpha-21 Pobedite Tipped Tools," Stanki i Instrument, 10, Nos. 10-11, 1939.

Report U-1505, 4 Oct 1951

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, M.E.

Investigating cutting speed and capacity in milling EI-395 heat-resistant steel and EI-437 (KhN 80T) heat resitant alloy. Trudy KAI 26:104-130 '52. (MLRA 10:6)

(Metal cutting)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, M.E.

Investigating the temperature of carbon steel and Duralumin workpieces machined on lathes. Trudy KAI 26:131-144 '52.
(Duralumin) (Steel) (Metal cutting) (MLRA 10:6)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, M.E.

Cold hardening of machined surfaces in milling EI-437 heat-resistant alloys. Trudy KAI 28:141-166 '54. (MLRA 10:6)
(Heat-resistant alloys) (Metal cutting)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, M.E.

Universal chip breakers. Trudy KAI 28:167-183 '54. (MLRA 10:6)
(Machine tools--Attachements)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, M.E.

Investigating the depth of cold hardening and stresses in surface layers of EI-437 heat-resistant alloys in noncircular machining. Trudy KAI 30:161-181 '55. (MLRA 10:6)

(Heat-resistant alloys) (Metal cutting)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, M.E.

Chip formation and physical phenomena occurring in machining ferrous metals and light-weight alloys on lathes. Trudy KAI 31:169-202 '56. (MLRA 10:5)

(Metal cutting) (Lathes)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

SOV/117-58-12-22/36

AUTHORS: Itkin, M.E., Candidate of Technical Sciences, Kupidonov, S.S., Engineer

TITLE: The Machining of High-Strength Materials with Mineral-Ceramic Cutters (Obrabotka vysokoprochnykh materialov mineralokeramicheskimi reztsami)

PERIODICAL: Mashinostroitel', 1958, Nr 12, pp 29-31 (USSR)

ABSTRACT: Experiments were carried out on finishing "30KhGSNA" steel with a mineral-ceramic cutter. It was stated that minimum wear of the cutter was obtained by applying the following optimum geometry of the instrument: face angle - 0°; chamfer angle - 10°; chamfer dimension - 0.5 mm. The results obtained in laboratory investigations were tested under industrial conditions with different parameters. It was stated that the cutting speed of ceramic cutters exceeds that of hard alloy cutters by 50 %. The described instrument can be successfully used for semi-rough and finishing lathe operations on "30KhGSNA" grade steel tempered up to = 160 to 180 kg/sq mm. There are 2 graphs, 1 diagram, 1 table and 5 Soviet references.

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Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1960, No 5, p 94, # 21471

AUTHOR: Itkin, M.E.

TITLE: Investigating the Cutting Process as a Process of Plastic Compression

PERIODICAL: Tr. Kazansk. aviats. in-ta, 1958, Vol 38, pp 317 - 356

TEXT: The author describes investigations connected with the determination of plastic deformation during the free compression of standard specimens and compression-cutting of special specimens. The specimens employed were of the carbon steel grades 20 and 45, the chrome-nickel steel grades 5 A1 (5ZA1), and X1H (Kh1N), and Д6 (D6) duralumin. The compression tests were carried out with the Gagarin-press and the ИМ-А4 (IM-A4) machine at a deformation rate of 1 mm/min. The author describes the practice of free compression of round and square specimens, of restricted compression by single-edge punches and of compression-cutting by multiple-edge punches. He presents

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Investigating the Cutting Process as a Process of Plastic Compression

photos of microsections and states the microhardness in the deformation zone for various kinds of compression. As a result of the tests it was found that 1) the mechanical metal characteristics $\sigma_{0\,2}$ (yield limit) and σ_0 (conventional yield limit according to the polytropic curve of compression) depend to a great extent on the ratio of the height of a specimen to its diameter, 2) the stagnant metal zones affect the nature of plastic deformation during free compression, 3) cutting-compression with single-edge tools ensures a curvilinear characteristic of the shear surface, 4) the conventional yield limit and the specific compression-cutting strain decrease with an increase in thickness of the layer to be compressed, 5) it is impossible to use for the rating of cutting stresses the values σ_0, obtained from the free compression tests of unrestricted specimens, 6) during the cutting process the greatest alterations in material structure take place in the zones of greatest deformation.
47 figures, 6 tables, 8 references.

B.L.D.

Card 2/2

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, M.E.

PHASE I BOOK EXPLOITATION SOV/5116

Akademiya nauk SSSR. Institut mashinovedeniya

Instrumental'nyye rezhushchiye materialy (Cutting-Tool Materials) Moscow, Izd-vo AN SSSR, 1960. 137 p. 6,000 copies printed.

Resp. Ed.: A. I. Isayev, Doctor of Technical Sciences, Professor; Ed. of Publishing House: G. B. Gorshkov; Tech. Ed.: N. F. Yegorova.

PURPOSE: This collection of articles is intended for scientific personnel and production engineers engaged in the manufacture and use of cutting tools.

COVERAGE: The collection contains papers read at a seminar on cutting-tool materials organized and sponsored by the Komissiya po tekhnologii mashinostroyeniya (Commission on Processing in Machine Building). The seminar investigated the cutting properties of ceramic and carbide tool materials, the effect of temperature on cutting edges, the problem of wear, and the possibility of using cutting tools more efficiently. No personalities are mentioned. References accompany each article. There are 21 references: [illegible] and 2 English.

Zaonikov, A. N. Temperature [Distribution] on the Surfaces of the Cutting Tools, and the Wear of Cutting Edges 49

Klushin, M. I. On Calculating the Strength of the Cutting Portion of Tools 63

Kravchenko, S. A. Pressure on the Flank of the Tool 71

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Itkin, M. E., and S. S. Kupidonov. Machining High-Strength Steels With Ceramic-Tipped Single-Point Tools 128

AVAILABLE: Library of Congress

VK/wru/fal
5-15-61

Card 3/3

(9)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

S/123/61/000/001/011/015
A005/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1961, No. 1, p. 40, # 1B342

AUTHOR: Itkin, M. E.

TITLE: An Investigation of the Temperature of the Work Piece at the Lathe Processing of Carbon Steel and Duralumin

PERIODICAL: V sb.: "Teplovyye yavleniya pri obrabotke metallov rezaniyem". Moscow, 1959, pp. 158-177, 10

TEXT: The author describes the method of measuring the temperature of hollow and compact work pieces of steels 20, 40, 45, and Duralumin Д 1 (D1) by movable and fixed thermocouples of nichrome - constantan. It was stated by the investigations that a constant temperature is set up in the work piece after a definite processing time. The temperature constancy duration depends on the cutting conditions and the work piece sizes; with increasing speed and feed, weight and dimensions of the work piece, the temperature in the surface layers decreases, and increases with increasing cutting depth. Thermal treatment (annealing) of the processed material causes an increase in the temperature. The application of

Card 1/2

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

S/123/61/000/001/011/015
A005/A001

An Investigation of the Temperature of the Work Piece at the Lathe Processing of Carbon Steel and Duraluminum

lubricating cooling liquids decreases the temperature in the surface layers by about 2.5 times. All grades of carbon steel have the same temperature under equal other conditions. The nichrome-constantan thermocouple offers a reliable method for measuring the temperature, if the work piece wall thickness is not smaller than 0.4 mm. Formulae are presented which allow the calculation of the effect of speed and feed on the temperature of the surface layers of the work piece (at 0.4 mm thickness of the layer). - There are 2 figures, 13 graphs, 5 tables, 7 references.

I. Bernshteyn

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

S/123/61/000/014/020/045
A004/A101

AUTHOR: Itkin, M.E.

TITLE: Investigating the effect of the cutting conditions and tool geometry on the pitch of the chip elements and the duration of their origination

PERIODICAL: Referativnyy zhurnal. Mashinostroyeniye, no.14, 1961, 23, abstract 14B152 ("Tr. Kazansk. aviats. in-ta", 1960, no. 52, 3 - 12)

TEXT: The pitch of chip elements was investigated during the turning of carbon steels (grades 20 and 45), of the heat-resistant ЭИ-437 (EI-437) alloy and of the ДІТ (DIT) grade Duralium on a lathe at free and restricted cutting. During free cutting, ring-shaped beads were turned from round specimens with Р18 (R18) tools and radial feed. The tests were carried out with varying cutting speed values within the range V = 1.82 - 163 m/min and at a constant depth of cut of t = 2.5 mm. The author presents the dependence of the element pitch and the lamellar structure of the chips on feed S, rake angle of tool γ and V. It was found that the chip element pitch increases with a growing γ. With the increase of S the element pitch grows more intensively when ductile materials are

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

machined (grade 20 and EI-437 steel) than during the working of less ductile 45 grade steel. If S is increased up to 0.3 mm/rev the lamellar structure pitch of the chip grows, remaining constant (0.04 mm) at S > 0.3 mm/rev. With an increase of V the dimensions of the pitch elements and lamellar structure decrease. By mathematical calculations and experimental data the author determines the quantity of chip elements being in simultaneous contact with the tool front edge, depending on the material being machined and the cutting speed. He presents the dependence of the duration of the origination of one chip element on the cutting speed and the material being worked. There are 12 figures and 4 references.

I. Bernshteyn

[Abstracter's note: Complete translation]

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

S/123/61/000/015/018/032
A004/A101

AUTHOR: Itkin, M. E.

TITLE: Investigating the microhardness of chips and the cutting zone

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 15, 1961, 25, abstract 15B156 ("Tr. Kazansk. aviats. in-ta", 1960, no. 52, 13-26)

TEXT: The author presents the results of investigating the microhardness in the cutting zone and of the chips during the machining of the grades 20 and 45 steel, the heat-resisting ЭИ-437 (EI-437) alloy and the Д1Т (D1T) alloy. The distribution of microhardness over the chip element was determined during the restricted cutting of grade 20 steel by high-speed steel tools (t = 2.5 mm; S = 0.6 mm/rev and V = 1.62 and 3.36 m/min). It was found that the microhardness on the chip element surfaces (face end surface, chipping surface and chip element contact surface) decrease with the distance from the tool blade. The maximum hardening is found in that part of the element face end surface adjacent to the tool top where the hardness is the double of the initial material. The author presents curves of changes in the microhardness of the contact surface of unbroken chips which show that, at equal cutting parameters (S and V), the EI-347

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alloy acquires the maximum hardening, following by the steel grades 20 and 45 and the D1T alloy. The microhardness of the contact layers depends on the cutting speed which is explained by the effect of the deformation rate and cutting temperature in the contact zone on the nature of metal hardening. During the investigation of the effect of the cutting speed on the microhardness of the ferrite and pearlite of the chip contact surface over a depth of 0.08 mm during the free and restricted cutting of grade 45 steel, it was found that the hardness of the deformed pearlite is greater than that of the deformed ferrite and the hardness of the structural constituents during free cutting exceeds the hardness of the structural constituents during restricted cutting. With the growing distance from the boundary of the contact layer into the chip depth, the hardness of the deformed layer gradually decreases. There are 13 figures and 5 references.

I. Bernshteyn

[Abstracter's note: Complete translation]

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

S/123/61/000/023/008/018
A052/A101

AUTHORS: Itkin, M. E., Kupidonov, S.S.

TITLE: Machining high-strength steels with knives tipped with ceramic-metal plates

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 23, 1961, 28-29, abstract 23B215 (V sb. "Instrumentalh. rezhushchiye materialy". Moscow, AN SSSR, 1960, 128-137)

TEXT: The turning of 30ХГСНА (30KhGSNA) high-strength steel hardened to σ_b = 160 - 180 kg/mm^2 with a ceramic-metal tool was investigated at the Kazan' Aviation Institute. Hollow cylinders turned on 25-kw Shiss-Defriz lathe were used as samples. 332 (TsM332) plates had the following geometry: $\gamma = 0^\circ$; $\gamma = -10^\circ$; $\alpha = 12^\circ$; $\varphi = 45^\circ$; $\varphi_1 = 10^\circ - 15^\circ$; $\lambda = 0$; r = 0.15-1.5 mm. The investigations have shown that ceramic-metal tools can be successfully used for semirough and finish turning; the wear of the knife when turning without cooling should not exceed 0.4 mm and when turning with cooling 0.55 mm, the feed should not exceed 0.4 mm/rev. A formula for computing cutting speeds is recommended. There are 3 references, 3 tables, 6 figures. L. Bozin

[Abstracter's note: Complete translation]

Card 1/1

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

L 19192-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD

ACCESSION NR: AR3004199 S/0276/63/000/005/B147/B147

59

SOURCE: RZh. Tekhnologiya mashinostroyeniya, Abs. 5B767

AUTHOR: Itkin, M. E.

TITLE: Investigation of cutting speed and hardening of machined surface at face and cylindrical milling of heat resistant and titanium alloys of brands EI437B, EI437A, EI617, and VT6

CITED SOURCE: Sb. Obrabaty*vayemost' zharoprochn. i titanovy*kh splavov. Kuyby*shev, 1962, 157-167

TOPIC TAGS: cutting speed, hardening, face milling, cylindrical milling, titanium, heat-resistant alloy, cutter type, EI437A, EI437B, EI617, VT6

TRANSLATION: Results are presented on investigation of face and cylindrical milling with high-speed R18 milling cutters of heat resistant alloys EI437A, EI437B and EI617, and of face-cylindrical milling of titanium VT6 alloy. This differed from regular cylindrical milling by a rounded angle on the milling cutter. Investigations were carried out using single-tooth cutters of miscellaneous construction -- face milling 130 mm diameter and cylindrical 82 mm with a spiral

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L 19192-63

ACCESSION NR: AR3004199

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incline angle of 20%. At face and cylindrical milling of EI437A and EI617 alloys the cutter's wear took place along the rear face, reaching the greatest value (0.6 to 0.7 mm) at the top of the blade. Chipping of the cutter's blade occurred at machining of VT6 alloy. On the basis of the results of investigation an angle gamma equal 20° to 25° is recommended for facial and cylindrical milling of EI437, EI617 heat resistant alloys; at cylindrical milling of 437B -- gamma optimum equal 10°; for VT6 titanium alloy -- gamma optimum equal 5°. For all the heat resistant and titanium alloys an angle alpha equal 12 to 15° is recommended. The feed should not be less than 0.04 to 0.05 mm per tooth, in order to increase the tool durability and to decrease the degree of cold hardening when machining heat resistant alloys. Six figures, 4 tables and 3 references. E. Dy*mova.

DATE ACQ: 21Jun63 SUB CODE: IE, MD ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

S/145/62/000/011/003/003
D262/D308

AUTHOR: Itkin, M.E., Candidate of Technical Sciences, Docent

TITLE: Investigation of temperature in the surface layer of a product, depending upon relief angle during turning of steel Ст.40 (St.40)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroyeniye, no. 11, 1962, 193-198

TEXT: The moving cutter at the surface turning is assumed as a moving linear source and the theory of movable sources by N.N. Rykalin (Raschety teplovykh protsessov pri svarke (Calculation of thermal processes in welding) Mashgiz, 1951) is applied to deduce the equation for the temperature field. The experimental results confirm the calculated values and deviations do not exceed ± 2%. There are 1 table and 3 figures.

ASSOCIATION: Kazanskiy aviatsionnyy institut (Kazan' Institute of Aviation)

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, M.E.

Investigating forces acting on the front and back edges of a cutting tool. Trudy KAI no.70:71-86 '62. (MIRA 16:4)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

L 00600-66 EWT(d)/EWT(1)/EWT(m)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(1) JD

ACCESSION NR: AR5018952 UR/0276/65/000/007/B089/B090
621.9.004.6.001.5

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya. Svodnyy tom, Abs. 7B719 28 B

AUTHOR: Itkin, M. E. 44,55

TITLE: Effect of physical parameters in cutting operations on tool wear

CITED SOURCE: Tr. Kazansk. aviats. in-ta, vyp. 84, 1964, 33-35
44,55

TOPIC TAGS: tool wear equation, cutting tool, relief angle effect, tool wear
44,55, 18 14

TRANSLATION: A formula is given for calculating wear on the trailing surface of a cutting tool. The equation indicates that wear on that surface is affected substantially by specific friction forces, by the cutting speed, the ratio of material to tool hardness, the geometric parameters of the cutting tool and the physical characteristics of the workpiece and tool. It is established that the relief angle produces a greater effect on tool wear than the back rake angle. Bibl. with 1 title. L. Romancheva

Card 1/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

L 00600-66

ACCESSION NR: AR5018952

SUB CODE: IE ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

KERNES, I.Ya.; KOTEL'NIKOVA, L.A.; LEMAN, T.R.; SHTUTINA, A.M.; KINKUL'KIN, A.T., retsenzent; KOLOSKOVA, P.P., retsenzent; SEMENKOV, V.N., retsenzent; ITKIN, M.L., red.; MASONOV, Yu.I., red.; ZELENTSOVA, Ye.I., tekhn. red.

[Sociology; recommended list of literature for the aid of the teacher] Obshchestvovedenie; rekomendatel'nyi ukazatel' literatury v pomoshch' uchiteliu. Moskva, Izd-vo Vsesoiuznoi knizhnoi palaty, 1963. 145 p. (MIRA 16:3)

1. Moscow. Gosudarstvennaya publichnaya istoricheskaya biblioteka. 2. Nauchno-bibliograficheskiy otdel Gosudarstvennoy publichnoy istoricheskoy biblioteki (for Kernes, Kotel'nikova, Leman, Shtutina). 3. Zaveduyushchiy sektorom obucheniya istorii Instituta obshchego i politekhnicheskogo obrazovaniya Akademii pedagogicheskikh nauk RSFSR (for Kinkul'kin). 4. Uchitel' sredney shkoly No.204 Timiryazevskogo rayona Moskvy (for Koloskova). 5. Starshiy inspektor Upravleniya prepodavaniya obshchestvennykh nauk Ministerstva vysshego i srednego spetsial'nogo obrazovaniya SSSR (for Semenkov).
(Bibliography--Sociology)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

L 4095-66 EWT(1)/EWA(h)

ACC NR: AP5024985 SOURCE CODE: UR/0286/65/000/016/0046/0046

29
13

INVENTOR: Ivanitskiy, K. P.; Luk'yanov, A. N.; Itkin, N. I.

ORG: none

TITLE: Device for measuring the Q-factor of shf resonators. Class 21, No. 173810 [announced by State Committee on Radioelectronics SSSR (Gosudarstvennyy komitet po radioelektronike SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 46

TOPIC TAGS: measuring instrument, resonator Q factor, resonator, superhigh frequency

ABSTRACT: This Author Certificate introduces a device for measuring the Q-factor of shf resonators. It consists of an FM generator, an AM detector, a switch, a comparison unit, a cathode-ray indicator, and a pointer-type indicator. In order to increase the measurement accuracy, the switch and the comparison unit are connected at their inputs with the resonator through a signal amplifier and with a reference voltage source. The cathode ray indicator is connected to the output of the switch, and the printer-type indicator, to the output of the comparison unit. Orig. art. has: 1 figure. [JR]

SUB CODE: EC/ SUBM DATE: 29Jun63/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS: 4129

BVK

Card 1/1 UDC: 621.317.337

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

L 13694-66 EWT(1)/EEC(k)-2/EWA(h)

ACC NR: AP6002875 SOURCE CODE: UR/0286/65/000/024/0037/0037

INVENTOR: Ivanitskiy, K. P.; Itkin, N. I.; Luk'yanov, A. N.

ORG: none

TITLE: Device for measuring ultrahigh Q factors. Class 21, No. 176961 [announced by the Establishment of the State Committee on Electronic Engineering SSSR (Predpriyatiye gosudarstvennogo komiteta po elektronnoy tekhnike SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 37

TOPIC TAGS: Q meters, rf resonator

ABSTRACT: The Author Certificate introduces a device for measuring ultrahigh Q's of rf resonators by reading the resonance time of a postimpact excitation. The device consists of an FM generator, a measuring resonator, a detector, a video amplifier, and a unit for separating the exponentially decaying part of a signal and measuring its duration. To exclude the effects of both frequency instabilities and FM generator output on measurements, an AM discriminator is employed. The input of the discriminator is coupled to the video amplifier output, while its output is coupled to a monovibrator generating negative pulses which are imposed on a sweeping sawtooth voltage in a summator. Orig. art. has: 1 figure. [JR]

SUB CODE: 09/ SUBM DATE: 24Dec64/ ATD PRESS: 4187

UDC: 621.317.737

Card 1/1

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, S. I., Physician Cand. Med. Sci.

Dissertation: "The Condition of Histo-Hepatic Barriers." Second Moscow State Medical Inst., imeni I. V. Stalin, 2 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, S.I.; DOGAYEVA, K.F.

Investigation on the morphology of the nervous system during life according to Pavlov's theory. Vest. khir. 71 no.2:71 1951. (CEML 20:8)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, S.I.

ITKIN, S.I., kandidat biologicheskikh nauk

Effect of a novocaine block on circulation and capillary permeability in inflammation. Trudy AMN SSSR 24 no.2:130-142 '53. (MLRA 7:7)

(INFLAMMATION, experimental,
*eff. of procaine nerve block on capillary permeability)
(PROCAINE effects,
*on capillary permeability in exper. inflamm.)
(CAPILLARY PERMEABILITY,
*eff. of procaine nerve block in exper. inflamm.)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, S.I.

DOGAYEVA, K.F., kandidat meditsinskikh nauk; ITKIN, S.I., kandidat biologicheskikh nauk

In vivo studies on the morphology of the nervous system. Trudy AMN SSSR 24 no.2:183-195 '53. (MLRA 7:7)
(NERVOUS SYSTEM, physiology, *morphol., vital study)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, S. I.

FD-2260

USSR/Medicine

Card 1/1 Pub 17-11/20

Author : Dogayeva, K. F.; Itkin, S. I.

Title : The effect of medicated sleep on blood circulation and capillary permeability of rabbits in scalds

Periodical : Byul. eksp. biol. i med. 3, 40-46, Mar 1955

Abstract : Investigated the effect of medicated sleep on blood circulation and capillary permeability in scalds of various degree and extent and established the limits of application of this method for the given ailment. Tables. One reference; USSR, since 1940.

Institution: Institute of Surgery imeni A. V. Vishnevskiy (Director-Prof. A. Vishnevskiy, Corresponding Member of the Academy of Medical Sciences USSR) of the Academy of Medical Sciences USSR

Submitted : March 29, 1954 by A. Ye. Braunshteyn, Member of the Academy of Medical Sciences USSR

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, S.I.

U-5

USSR / Pharmacology, Toxicology, Local Anesthetics

Abs Jour : Referat Zh.-Biol., No 1, 1958, 3446

Author : Itkin, S.I.

Inst : Not given

Title : The Effects of Novocaine Block and Drug-induced Sleep on Capillary Permeability and Inflammation Caused by the Protein Fractions of Exudates

Orig Pub : Eksperim. khirurgiya, 1956, No 6, 40-47.

Abstract : In 144 experiments on 109 rabbits, an inflammatory process was produced with the aid of globulin fractions which had been separated from the inflammatory exudates of cats and dogs following the intrapleural instillation of turpentine, as well as from the postsurgical aseptic pleural exudates of patients. Capillary permeability was studied by microscopy during life using a 1% solution

Card 1/3

APPROVED FOR RELEASE: 08/10

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, S.I. (Moskva)

Reactive and structural changes in the autonomic nervous system in hypothermia. Eksp.khir. 4 no.2:53-55 Mr-Ap '59. (MIRA 12:5)

(AUTONOMIC NERVOUS SYSTEM, physiol.
eff. of hypothermia (Rus))
(HYPOTHERMIA, effects,
on autonomic NS (Rus))

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, S.I. (Moskva)

Intravital study of the morphology of the nervous system of the internal organs in extensive burns. Kaz.med.zhur. no.5:114 S-O '60. (MIRA 13:11)

(VISCERA--INNERVATION)
(BURNS AND SCALDS)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

SMOL'YANINOVA, N.S.; ITKIN, S.I.

Anatomic and functional changes in the gastrointestinal tract following total or partial resection of the lung; experimental study. Grud. khir. 2 no.3:73-74 My-Je '60. (MIRA 15:3)

1. Iz rentgenovskogo otdeleniya (zav. - prof. P.N. Mazayev) Instituta khirurgii imeni A.V. Vishnevskogo (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR. Adres avtorov: Moskva, B. Serpukhovskaya ul.,d.27, Institut khirurgii imeni A.V. Vishnevskogo.

(ALIMENTARY CANAL) (LUNGS--SURGERY)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, S.I.

Changes in the central nervous system in burns. Eksper.khir. 5 no. 3:60-61 My-Je '60. (MIRA 14:1)
(BURNS AND SCALDS) (NERVOUS SYSTEM)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, S.I. (Moskva)

Morphological changes in the central nervous system in burns. Eksper. khir. i anest. 8 no.3:71-73 My-Je'63 (MIRA 17:1)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, S.I.

Intravital morphological examination of the nervous system of internal organs in extensive experimental burns. Eksper. khir. i anest. 9 no.5:59-63 S-O '64. (MIRA 18:11)

1. Otdel patologicheskoy anatomii (zav. - prof. D.S.Sarkisov) Instituta khirurgii imeni A.V.Vishnevskogo (direktor - deystvitel'nyy chlen AMN SSSR prof. A.A.Vishnevskiy) AMN SSSR, Moskva.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

ITKIN, S. P.

"Effect of Novocain Block and Medicinal Sleep on Capillary Permeability in Inflammation Caused by the Protein Fraction of Exudates," by S. P. Itkin, Institute of Surgery imeni A. V. Vishnevskiy (head, Prof. A. A. Vishnevskiy, corresponding member, Academy of Medical Sciences USSR), Academy of Medical Sciences USSR, Eksperimental'naya Khirurgiya, No 6, Nov/Dec 56, pp 40-47

The relationship between the neuroceptors and the chemical factors of inflammation in the development of inflammation was studied. Protein fractions extracted from exudate were used for the experimental induction of the inflammatory process. It was shown that various protein fractions which were capable of increasing capillary permeability were also capable of causing tissue inflammation. However, the capacity of these globulin fractions for increasing capillary permeability is not always proportionate to their capacity for causing inflammation. Their capacity to produce inflammation is, however, always related to increased capillary permeability.

Novocain block and medicinal sleep greatly decrease the necrotizing action of necrosine (a proteinase of the trysinase type) and the inflammatory action of the globulin fractions. Thus, the active of the action globulin fractions is dependent on the state of the nervous system. (U)

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BELKIN, B.A.; ITKIN, V.A.

Experimental study of a frequency multiplier using a pulsed mode of self-oscillator operation. Elektrosviaz' 19 no.10:75-77 O '65.

(MIRA 18:12)

1. Submitted Jan. 25, 1965.

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L 44451-66 EWT(m)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/HW

ACC NR: AP6018946 (A) SOURCE CODE: UR/0126/66/021/006/0881/0886

AUTHORS: Itkin, V. P.; Mogutnov, B. M.; Shvartsman, L. A.

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45
B

TITLE: Effect of preliminary annealing and plastic deformation on the aging of martensite

SOURCE: Fizika metallov i metallovedeniye, v. 21, no. 6, 1966, 881-886

TOPIC TAGS: alloy steel, nickel containing alloy, aluminum containing alloy, martensite steel, metal aging

ABSTRACT: The effect of preliminary annealing and plastic deformation of iron-aluminum martensite on the aging and mechanical properties of the latter was investigated. The work supplements the results of an earlier study by V. P. Itkin, B. M. Mogutnov, and L. A. Shvartsman (DAN SSSR, 1965, 161, 1073); the experimental procedure employed is described by the same authors (FMM, 1966, 21, 732). The experimental results are presented graphically (see Fig. 1). It was found that aging of iron-aluminum martensite is a complex process accompanied by positive and negative heat effects. The alloy is strengthened by a high temperature aging, and the authors attribute this strengthening effect to precipitation of (Ni, Fe)Al. The authors thank G. V. Kurdyumov and M. D. Perkas for their valuable advice and critical appraisal of

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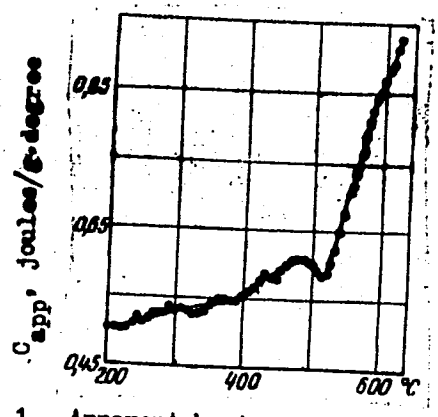

Fig. 1. Apparent heat capacity of slowly cooled alloy.

the experimental results. Orig. art. has: 3 graphs.

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MIKHALEVICH, A.G.; ITKIN, V.P.

Continuous evaluation of sinter quality in the sintering machine for the purpose of automatizing the sintering process. [Sbor. trud.] TSNIICHM no.29:44-49 '63. (MIRA 17:4)

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L 49285-65 EWT(m)/EWP(z)/EWA (c)/EWP(b)/T/EWP(t) Pad IJP(c) JD/EW

ACCESSION NR: AP5011559 UR/0020/65/161/005/1073/1076

AUTHOR: Itkin, V. P.; Mogutnov, B. M.; Shvartsman, L. A.

TITLE: Heat transformations of iron-nickel martensite

SOURCE: AN SSSR. Doklady, v. 161, no. 5, 1965, 1073-1076

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

L 49285-65
ACCESSION NR: AP5011509

respectively. The aging of Fe-Ni-Al-Ti alloy was similar to that of the Fe-N [illegible]

[illegible]

[illegible] metalloy [illegible]

ENCL: 00 SUB CODE: MM

NO REF SOV: 005 OTHER: 005 ATD PRESS: 4008

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618920007-8

L 36110-66 EWT(m)/EWP(w)/T/EWP(t)/ETI IJP(c) JD/HW/JH

ACC NR: AP6017307 (N) SOURCE CODE: UR/0126/66/021/005/0732/0739

AUTHORS: Itkin, V. P.; Mogutnov, B. M.; Shvartsman, L. A. 50 B

ORG: Institute for Physical Metallurgy and Metal Physics (Institut metallovedeniya i fiziki metallov); TsNIIChERMET

TITLE: The nature of phases which separate during aging of iron--nickel--aluminum martensite

SOURCE: Fizika metallov i metallovedeniye, v. 21, no. 5, 1966, 732-739

TOPIC TAGS: martensite, iron containing alloy, nickel containing alloy, aluminum containing alloy

ABSTRACT: A thermodynamic calculation of the equilibrium composition of the products formed during the decomposition of aged Ni--Fe--Al martensite was carried out. The calculation supplements the data of V. P. Itkin, B. M. Mogutnov, and L. A. Shvartsman (DAN SSSR, 1965, 161, 1073) and is based on earlier literature data for activity coefficients for the binary systems Ni--Fe, Fe--Al and Ni--Al. The derivation of activity coefficients for the ternary system from the activity coefficients of the binary systems was carried out after the method of C. J. Wagner (Chem. Phys., 1951, 19, 5, 626)

$$\varepsilon_{Al}^{Ni} = \varepsilon_{Ni}^{Al} \approx \left[\frac{\partial \ln \gamma_{Al}}{\partial x_{Al}} \frac{\partial \ln \gamma_{Ni}}{\partial x_{Ni}}\right]^{N},$$

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