L 39399-65 EPR/EWT(m)/EWP(b)/T/EWA(d)/EWP(w)/EWP(t) Ps-4 IJP(c) 3D GS

ACCESSION NR: AT4046214 S/0000/63/000/00032/0039

AUTHOR: Panin, V. Ye.; Zenkova, E. K.; Solov'yev, L. A.; Fadin, V. P.

TITLE: High-temperature anomalies of the properties of Cu-Al alloys in the solid solution region

SOURCE: Yubileynaya konferentsiya po fiziko-khimicheskomu analizu. Novosibirsk, 1960. Fiziko-khimicheskiy analiz (Physicochemical analysis); trudy konferentsii. Novosibirsk, Izd-vo Sib. otd. AN SSSR, 1963, 32-39

TOPIC TAGS: solid solution, solid solution transition, activation energy, vacancy mobility, copper alloy, aluminum alloy, high temperature anomaly, alloy physical property alloy crystal structure

ABSTRACT: Earlier studies showed (see, e.g., C. R. Houska, B. L. Auerbach, J. Appl. Phys., v. 30, no. 10, 1959, p. 1525; V. S. Kagan, V. A. Somenkov, Ya. S. Umanskiy, Kristallografiya, v. 5, no. 4, 1960) that solid Cu-Al solutions may undergo high temperature transitions accompanied by thermal effects and anomalous variations in heat capacity, electrical resistivity, and mechanical properties of the alloy. The present study investigated these anomalies in detail for solid

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L 39399-65

ACCESSION NR: AT4046214

Cu-Al solutions of varying concentration. Special attention was paid to solutions near the solubility limit because of the possible abrupt changes in the concentration limits. Tests using very pure (from 99.95% pure Cm and 99.99% pure Al) and technically pure alloys heated up to 800°C showed that \$\psi\$ 1) the anomalous changes at increased temperatures in the properties of solid Cu-Al solutions are caused neither by impurities nor by changes in the limits of solubility of Al in Cu; alloys close to the solubility limit the ordering processes within the alloy; 2) in another process connected with the changes in the solubility limit for T \( \lambda 000C; \) very much on the purity of the alloy; an increase in purity shifts the ordering process into the lower temperature region. The associated decrease in activation energy is probably related to the increased mobility of the excess hardening vacancies which, otherwise, become bound by the impurity atoms. Orig. art. has:

ASSOCIATION: None

SUEMITTED: 10Sep63

NO REF SOV: 007

ENCL: 00

SUB CODE: 194

OTHER: 010

Card 2/2/ ~

S/185/63/008/002/003/012 D234/D308

AUTHORS:

Panin, V. Ye., Fadin, V. P. and Dudarev, Ye. F.

TITLE:

Effect of hardening temperature on the ordering processes in solid solutions of Cu-Al

PERIODICAL:

Ukrayins'kyy fizychnyy zhurnal, v. 8, no. 2, 1963, 195-200

TEXT: The authors investigated the alloy Cu + 14.3 at.% Al hardened at  $T_h = 320^\circ$ ,  $600^\circ$  and  $900^\circ$ C. The electric resistance  $\rho$  was chosen as the characteristic of state, and its temperature variation is considered. The ordering processes during tempering are very slow for  $T_h = 320^\circ$  but very intense for  $T_h = 600^\circ$ C. Values for the activation energy of the ordering process are given for the above values of  $T_h$  and for  $T_h = 400^\circ$ C, and it is found that the activation energy is independent of  $T_h$  for  $T_h = 400 - 900^\circ$ , but increases sharply for  $T_h = 320^\circ$ C. There are 3 figures and 1 table. Card 1/2

I	Effect of hard	S/185/63/008/002/003/012 D234/D308		
A	LSSOCIATION:	Sibirskiy fiziko-tekhnicheskiy institut (Siberian Physicotechnical Institute), Tomsk		
C	ard 2/2			
			n as finite	

S/185/63/008/002/004/012 D234/D308

AUTHORS:

Panin, V. Ye. and Fadin, V. P.

TITLE:

Effect of purity of the alloy on the character of or-

dering in solid solutions of Cu-Al

PERIODICAL:

Ukrayins kyy fizychnyy zhurnal, v. 8, no. 2, 1963,

201-206

TEXT: The alloys investigated were: 1) Cu + 14.3 at.% Al of high purity, 2) Cu + 14.9 at.% Al with 0.025 and 0.07 weight% P. The dependence of the electrical conductivity  $\rho$  on the hardening temperature  $T_h$ , the temperature variation of  $\rho$  and of  $C_p$  are considered. The activation energies E of the ordering process are given. Conclusions: the temperature interval of the ordering is displaced towards higher temperatures with increasing concentration of P; E increases at the same time. E is independent of  $T_h$  when the latter is between  $400^\circ$  or  $500^\circ$ C and  $900^\circ$ C. Atomic mobility in Cu-Al alloys can be sharply decreased by adding small quantities of P. There

Card 1/2

Effect of purity ... S/185/63/008/002/004/012 D234/D308

are 3 figures and 1 table.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut (Siberian Physicotechnical Institute), Tomsk

Card 2/2

8/185/63/008/002/005/012 D234/D308

**AUTHORS:** 

Panin, V. Ye., Fadin, V. P., Bushnev, L. S. and

Minayeva, G. G.

TITLE:

Imperfect long-range order in solid solutions Cu-Al

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 8, no. 2, 1963,

206-210

The authors calculate the theoretical isotherms of the variation of short-range parameter of during tempering of the hardened alloy Cu + 14.3 at. % Al. Experimental curves, obtained from the tempering isotherms of electrical conductivity, are compared with theoretical curves. Temperatures of hardening were 320° and 600°C, that of tempering 130°C. There is considerable disagreement between theory and experimental results for 600°C, which is attributed to the existence of imperfect long-range order. Thin foils (1000 - 2000 A thick) of the alloy were investigated with an electron microscope, and paired dislocations, with distances of 150 - 300 A in a pair, was observed. These are typical for alloys with long-

Card 1/2

Imperfect long-range ... S/185/63/008/002/005/012
D234/D308
range order. There are 2 figures.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut (Siberian Physicotechnical Institute), Tomsk

Card 2/2

FADIN, V.P.; PANIN, V.Ye.; DUBAREV, Ye.F.

Nature of ordering in Cu-Al gold solutions. Here 64-

Nature of ordering in Cu-Al solid solutions. Ukr. fiz. zhur. 8 no.2: 210-216 F '63. (MIRA 16:2)

1. Sibirskiy fiziko-tekhnicheskiy institut, g. Tomsk. (Copper-aluminum alloys)

\$/126/65/015/002/017/033 E193/E383

AUTHORS:

Panin, V.Ye., Fadin, V.P., Red'kin, V.P. and

Ignatyuk, V.A.

TITLE:

The temperature-dependence of short-range order in

solid Cu-Al solutions

PERIODICAL: Fizika metallov i metallovedeniye, v. 15, no. 2, 1965, 264 - 268

TEXT: The object of the present investigation was to evaluate the contribution of the variation in short-range order to the variation in properties of Cu-Al alloys during heat-treatment. Using the theoretical concepts of Kidin and Shtremel' (FM., 1961, 11, no. 5), Le Claire and Lomer (Acta met., 1954, 2, 11) and the experimental data due to Houska and Averbach (J. Appl. Phys., 1959, 50, no. 10) on the equilibrium probability  $p_{\mbox{\scriptsize AB}}$  of a given bond of an atom A being satisfied by an atom B, the present authors calculated the values of pAB and the parameter of the short-range order of for the 14.3 at. % Al-Cu alloy at 0 - 1 000 °C. The results indicated that a considerable degree of short-range order

S/126/65/015/002/017/035 E195/E585

The temperature-dependence ....

was retained in the alloy studied even at temperatures approaching its melting point. The values of  $\sigma$  obtained were used to estimate the variation in electrical resistivity due to the gradual destruction of short-range order on heating; it was shown that the resistivity of the alloy should gradually increase with increasing temperature. The temperature-dependence of  $p_{AB}$  was

used to determine the temperature-dependence of the energy required to destroy the short-range order. Finally, the heat effect associated with disordering was experimentally determined by studying the temperature-dependence of the specific heat of the 17.3 at.% Al-Cu alloy. The results obtained for this alloy are reproduced in Fig. 3, showing the temperature-dependence of the short-range order parameter (o', righthand scale, curve 1), the energy required to destroy the short-range order (\Delta E, cal/mole, lefthand scale, curve 2) and the heat effect due to disordering (\Delta Q, cal/mole, lefthand scale, curve 3). The fact that curves 2 and 3 in Fig. 3 did not coincide at high temperatures was taken to indicate that transformations in the solid Cu-Al solution were Card 2/3

S/126/63/015/002/017/035 The temperature-dependence .... E193/E383 associated not only with changes in the degree of short-range order but with other phenomena. There are 5 figures and 1 table. ASSOCIATION: Sibirskiy fiziko-tekhnichoskiy institut (Siberian Physicotechnical Institute) SUBMITTED: July 10, 1962 Fig. 3: 200 400 600. 800°€ Card 3/3

FADIN, V.P.; PANIN, V.Ye.

Kinetics of near order changes in copper-aluminum solid solutions. Fiz.
met. i metalloved. 17 no.2r192-196 F '64. (MIRA 17:2)

1. Sibirskiy fiziko-tekhnicheski; institut.

PANIN, V.Ye.; FADIN, V.P.

Short-range order contribution to the change in the properties of  $C_u$  - Al solid solutions due to thermal treatment. Izv. vys. ucheb. zav.; fiz. 8 no.2;119-124 '65. (MIRA 18;7)

1. Sibirskiy fiziko-tekhnicheskiy institut imeni kuznetsova.

FADIN, V.P.; PANIN, V.Ye.

Concentration dependence of the ordering energy in Cu - Zn solid solutions. Izv. vys. ucheb. zav.; fiz. 8 no.2%177-179 '65. (MIRA 18:7)

1. Sibirskiy fiziko-tekhnicheskiy institut imeni Kuznetsova.

L 46327-65 EWT(m)/T/EWA(m)-2

ACCESSION NR: AP5009215

5/0020/65/161/001/0074/0077

AUTHOR: Bayer, V. N.; Fadin, V. S.

D.

TITLE: Polarization effects in the production of particles in colliding beam experiments

SOURCE: AM SSSR. Doklady, v. 161, no. 1, 1965, 74-77

TOPIC TAGS: colliding beam experiment, electron polarization, electron positron annihilation, pair production

ABSTRACT: To estimate the influence of electron polarization on the fundamental two-particle processes occurring during annihilation of an electron-positron pair, the authors calculated the cross sections for the production of pairs of pions, muons, nucleons, and vectons by polarized electrons and positrons. The polarization is produced when the electrons move in a magnetic field and radiate. The calculations show that polarization of the initial electrons and positrons causes the cross sections of two-particle annihilation to be appreciably deformed compared with the cross sections of the process for nonpolarized particles. Such deformation must be taken into account in experiments with colliding beams. On the

Card 1/2

CCESSION NR	: AP50092	15					
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L 22136-66 EWT(1) GG ACC NR: AP6004934

SOURCE CODE: UR/0056/66/050/001/0156/0168

AUTHOR: Bayer, V. N.; Fadin, V. S.; Khoze, V. A.

ORG: Novosibirsk State University (Novosibirskiy gosudarstvenny universitet)

TITLE: Electromagnetic particle pair production

SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, 156-168

TOPIC TAGS: pair production, particle collision, photon emission, fermion, collision cross section, electromagnetic interaction, nuclear spin, charged particle, differential cross section, integral cross section, quantum electrodynamics,

Dremsstrahlung
ABSTRACT: This is a continuation of a series of earlier papers (ZhETF v. 48,
1708, 1965 and elsewhere) dealing with bremsstrahlung occurring upon collision of
two charged particles, and the emission of a photon following two-particle annihilation of a pair of particles. The method used in these investigations consisted of integrating individual parts of the diagrams and using the properties
of relativistic, gauge, and charge invariance. In the present article this method
is used to calculate the cross sections for electromagnetic pair production under
the simplifying assumption that all the charged particles are distinguishable.

Card 1/2

中華智慧的產品學與強能

L 22136-66

ACC NR: AP6004934

The cross sections for the creation of pairs of fermions with spin 1/2 or of scalar particles upon collision of a photon with a charged particle are calcuterms of the invariant mass of the pair of charged particles. The obtained cross sections are discussed from the point of view of the study of the form factors of the particles and the check on the validity of quantum electrodynamics at small particles into two pairs of charged particles. The exact value of the differential cross section is obtained in terms of the invariant masses of the produced pressions are also obtained for the integral cross section. The calculation takes tensor of the fourth rank is integrated over the final states of the fermion pair.

SUB CODE: 20/ SUBM DATE: 09Jul65/ ORIG REF: 008/ OTH REF: 004

Card 2/2/3/

L 30030-66 EWT(1)/Wf(m)/: IZI(e) GG  ACC NR: AP6020115 SOURCE CODE: UR/0367/66/003/002/0/27/0331	
AUTHOR: Bayer, V. H.; Fadin, V. S.; Khoze, V. A.	
ORG: Novosibirsk State University (Novosibirskiy gosudarstvennyy universitet)	
TITLE: Elastic and inclastic formfactors in the cross-sections of electromagnetic processes	
SOURCE: Yadernaya fizika, v. 3, no. 2, 1966, 327-331	
TOPIC TAGS: photon, elastic scattering, inelastic scattering, particle annihilation, particle cross section, electromagnetic interaction	
ABSTRACT: General formulae for the cross-sections of elastic scattering and the two- and three-particle annihilation of a pair of arbitrary particles are derived in a one-photon approximation. The creation of a pair of particles in interactions of photons with charged particles and in the inelastic electromagnetic annihilation of	-
a pair is considered. Orig. art. has: 3 figures and 26 formulas. [Rased on authors Eng. abst.] [JPRS]	
SUB CODE: 20 / SUBM DATE: 23Jun65 / ORIG REF: 004 / OTH REF: 005	-
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#### "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041233

B

L 11712-66 EWT(1)/T LIP(c) AT

ACC NR: AP6020217 SOURCE CODE: UR/0056/66/050/006/1611/1616

AUTHOR: Bayer, V. N.; Fadin, V. S.; Khoze, V. A.

ORG: Novosibirsk State University (Novosibirskiy gosudarstvenny universitet)

TITIE: Emission of two photons in a specified angle during electron collisions

SOURCE: Zh eksper i teor fiz, v. 50, no. 6, 1966, 1611-1616

TOPIC TAGS: photon emission, electron collision, radiation detector, scattering cross section

ABSTRACT: This is a continuation of earlier work by one of the authors (Bayer, with V. M. Galitskiy, ZhETF Pis ma v. 2, 259, 1965 and earlier) dealing with the emission of two photons of arbitrary energy as a result of electron collisions. In view of the great interest that attaches to this process in connection with colliding-beam experiments, and in view of the fact that earlier calculations were based on the assumption that the angular dimensions of the photon detectors greatly exceed the characteristic emission angle, the authors calculate in this article the cross section for the emission of two photons into a specified angle, which is shown to be only a fraction of the cross section of the radiation integrated over all the angles. The final expression, obtained by a combination of analytic and computer techniques, is in the form of a polynomial in the powers of the frequencies of the two photons. The numerical values of the coefficients of the powers of the frequencies are obtained in the case when the detector dimensions are of the order of magnitude of the characteristic

Card 1/2

emission angle. An analytic expression for the cross section is obtained when the detector dimensions are much larger than the characteristic angle. The results of this analytic expression agree well with the numerical calculations. The authors thank A. P. Omuchin for a discussion of questions connected with the experiment, and G. I. Rusova and E. Z. Borovskaya for help with the numerical calculations. Orig. art. has: 1 figure, 14 formulas, and 2 tables.  SUB CODE: 20/ SUBM DATE: 10Jan66/ ORIG REF: 003/ OTH REF: 001	L կ17կ2-66	
detector dimensions are much larger than the characteristic angle. The results of this analytic expression agree well with the numerical calculations. The authors thank A. P. Omuchin for a discussion of questions connected with the experiment, and G. I. Rusova and E. Z. Borovskaya for help with the numerical calculations.  Orig. art. has: 1 figure, 14 formulas, and 2 tables.  SUB CODE: 20/ SUEM DATE: 10 Jan 66/ ORIG REF: 003/ OTH REF: 001		3
	detector dimensions are much larger than the characteristic angle. The results of this analytic expression agree well with the numerical calculations. The authors thank A. P. Omuchin for a discussion of questions connected with the experiment, and G. I. Rusova and E. Z. Borovskaya for help with the numerical calculations.	e C
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ACC NRI AP6036055

SOURCE CODE: UR/0056/66/051/004/1135/1142

AUTHOR: Bayer, V. N.; Fadin, V. S.; Khoze, V. A.

ORG: Novosibirsk State University (Novosibirskiy gosudarstvennyy universitet)

TITLE: Bremsstrahlung in high energy electron collisions

SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 51, no. 4, 1966, 1135-1142

TOPIC TAGS: bremsstrahlung, electron collision, photon emission, center of mass, emission, center of mass system.

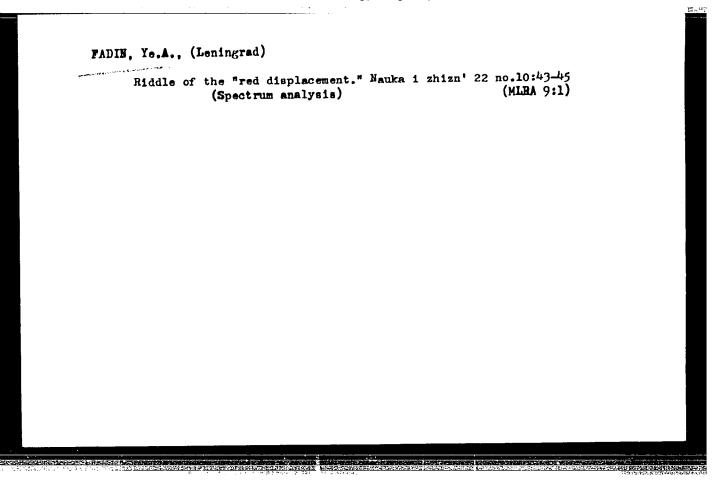
ABSTRACT: Single bremsstrahlung in high electron collisions is considered. The angular distribution and spectrum of the emitted photons in the center of mass system and the laboratory system are calculated. Radiation due to the incident particle and recoil particle is considered in the 1. s. case. The classical current and Weizsacker—Williams methods are analyzed and it is shown that the latter method is not valid for calculating the spectrum of photons emitted by recoil

Card 1/2

particles if $\sim m/2$ . The authors are very grateful to W. M. C.	!					
particles if w/m/2. The authors are very grateful to V. M. Galita and Ye. M. Lifshits for discussions. Orig. art. has: 3 figures and 28 formulations! abstract]						
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PADIN, V., inzhener; PADIN, Ye., inzhener.

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sov/86-58-8-2/37

AUTHOR:

Rayevskiy, P.D., Lt Col, and Fadin, Ye.S., Capt

TITLE:

Party Organization Fights for High Standards in Training (Partiynaya organizatsiya v bor'be za vysokoye

kachestvo ucheby)

PERIODICAL:

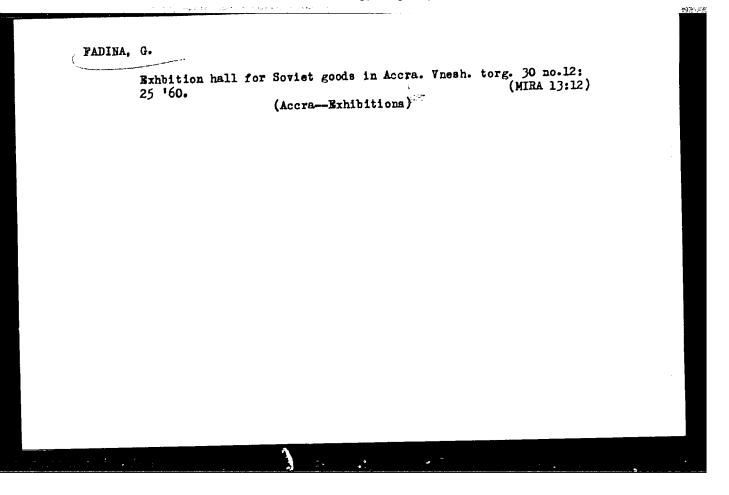
Vestnik vozdushnogo flota, 1958, Nr 8, pp 9-14 (USSR)

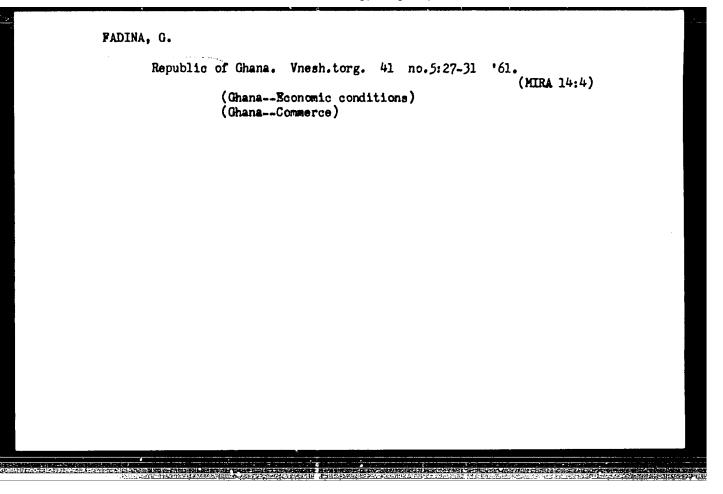
ABSTRACT:

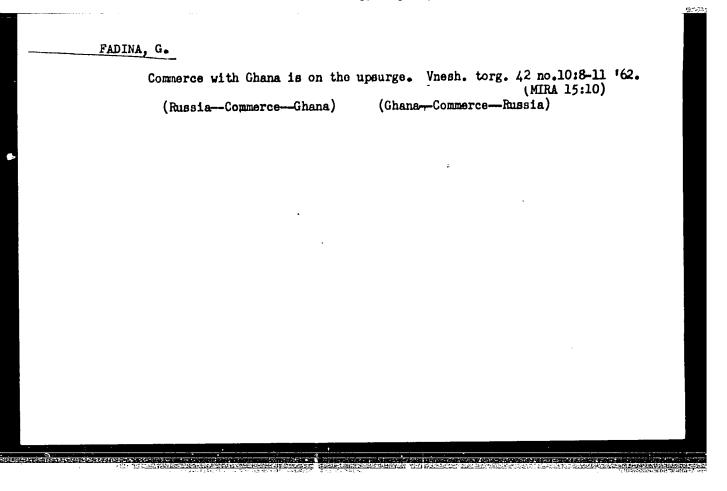
The authors describe the role played by party organizations in the training of personnel in general, and of flying personnel in particular. They are members of an outstanding bomber unit, which has had no aircraft

accidents during the last 10 years.

Card 1/1







KOVALEV, N.G.; ZMEYEV, A.A.; LUKIN, Ye.I.; FADINA, G.I.; KATIN, V.K.; SYSHCHIKOV, Yu.T.; VLASOV, A.V.; KARPOV, I.N.; ASTAKHOV, A.S.; DARONYAN, M., red.; MOSKVINA, R., tekhn. red.

[Africa in figures; a statistical manual] Afrika v tsif-rakh; statisticheskii spravochnik. Moskva, Sotsekgiz, 1963. 566 p. (MIRA 16:11)

(Africa-Statistics)

KIDIN, I.N.: LEYKOVSKIY, K.K.; PIGUZOV, Yu.V.; FADINA, L.V.

Investigating the isothermal decomposition of austenite by the internal friction method. Fiz. met. i metalloved. 18 nc.2:316-317 Ag \*64.

(MIRA 18:8)

1. Moskovskiy institut stali i splavov.

VAYESHTEYN, Ya.I., inzh.; FADINA, N.M., inzh.

Adjustment of slit-type gas burners. Teplocorgetika & no.2:
11-12 Mr. '61. (MIRA 14:9)

1. Energonaledka. (Gas burners)

VAYNSHTEYN, Ya.I., inzh.; FADINA, N.M., inzh. Indrease in the evaporative capacity of boilers. Energetik 10 no.4:13-16 Ap '62. (MIRA 15:4) no.4:13-16 Ap '62. (Boilers)

## "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041233

FADINA, JE. A., PROKHOROVA, A. A. and BELIKOV, N. P.

"Honey inspection and determination of its quality."

Veterinariya, Vol. 37, No. 5, 1960, p. 82

Simugaad City Vot - Bacterist Sub

ZAKHAROV, V.I.; NOVIKOVA, N.R.; PERFILOV, N. A.; FADINA, Ye.V.

Properties of fine-frain nuclear emulsions dependent on the pag and the temperature of emulsification and first ripening.

Zhur. nauch. i prikl. fot. i kin. 9 no.1:21-27 Ja-F'64.

(MIRA 17:2)

ZAKHAROV, V.I.; NOVIKOVA, N.R.; PERFILOV, N.A.; FADINA, Ye.V.

Pyrogallolamidol developer for nuclear emulsions. Zhur.nauch.
1 prikl.fot. 1 kin. 9 no.61422-425 N-D \*64.

(MIRA 18:1)

ACC NR: AT7000923

BOURCE CODE: UR/3180/66/012/000/0005/0015

AUTHOR: Novikova, N. R.; Zakharov, V. I.; Fadina, Ye. V.

ORG: none

TITLE: Use of synthetic polymers in the manufacture of fine grain nuclear emulsions. Part I. Properties of fine grain emulsion when the gelatine is partially replaced by polyvinyl acetals

SOURCE: AN SSSR. Komissiya po khimii fotograficheskikh protsessov. Uspekhi nauchnoy fotografii, v. 12, 1966. Yadernaya fotografiya (Nuclear photography), 5-15

TOPIC TAGS: nuclear emulsion, emulsion polymerization, film grain, polyvinyl acetate

ABSTRACT: The authors report experiments aimed at improving the properties of nuclear emulsions by replacing the gelatin with polyvinyl acetals, using PR-2 nuclear emulsions as examples, and investigated the physical, mechanical, and recording properties of emulsions prepared on this basis. The emulsions were prepared essentially by diluting the initial PR-2 emulsion with a solution of polyvinyl acetal. The preparation of the polyvinyl acetal and of the emulsion are briefly described. Several types of polyvinyl acetal were investigated. The tests consisted of determining the swelling of the gelatin and polymer-gelatin emulsion layers, the changes in the linear dimensions, the mechanical strength, and the photographic grain density and the fog-

Card 1/2

М

FADRKHONS

CZECHOSLOVAKIA/Cultivated Plants. Grains.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20260.

Author : I Fadrkhons

: The Selection of Short-Stalked Rye. (Selektsiya rzhi s Inst Title

korotkoy solomoy).

Orig Pub: Sbor. Ceskosl. akad. zemed. ved. Rostl. vyroba, 1956,

29, No 7, 645-652.

Abstract: The problem is solved for the possibility of selecting

rye with short stalks in order to provide them with greater resistance to stem wilting. A new select variety of Dobrovitskiy winter rye with a short culm in comparison with the standard variety of Czech rye is distinguished by its resistance to stem wilting,

: 1/2 Card

MALY, J.; FADRUS, H.

The possibility of use of indigocarmine for the determination of nitrates. Cesk. hyg. 9 no.6:367-373 J1'64

1. Vodohospodarska sprava, Brno.

NEDOROST, Cestimir, inz.; FADRUS, Hubert, promovany chemik; MALY, Josef, promovany chemik; NEMVICH, Jindrich, inz.

Experiences in waste water purification in Brno. Vodni hosp 14 no.8:293-298 '64.

1. Water Resources Menagement Agency of the city of Brno (for all except Nentvich). 2. Hydroprojekt, Brno (for Nentvich).

NEDGRAST, Cestmir, inz.; MALY, Josef, promovany chemik; FADRLS, Hubert, promovany chemik; PAZDERA, J., inz.

Experiences in waste water purification in Brno. Vodni hosp 14 no.9: 339-347 164.

1. Brno City Mater Resources Management, Brno (for all except Familiera).

2. Hydroprojekt, Brno (for Fazdera).

1. Vodohospidarska sprava mesta Brna.

Talle & Palle , Co.

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"The Considerity of the Use of Indiquernable for the Cotesmanation of Tibrates."

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R0004

CZNONOSŁOVAKIA

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FADRUS, H; HALY, J.

Water Economy Management of the City of Brno (Vodohos; odarska sprava mesta Brna), Brno (for both)

Prague, Coskoslovenska Kygiena, No 2, 1965, pp 97-99

"On the Quick Detection of Iron in Water."

VAS'ROVORTY, A. P., PASECHIIK, P. P., FADRYGA, S. V. and CHALEERC, C. E.

"Agriculture of the Magadan Oblast'" (book) 1957

Tells of the Experience of agricultural workers of the Magadan Oblast', which is the more interesting because of the utilization of new areas in the north. Inspite of the many of authors the book is a complete and finished work.

FADYUSHIN

Kotel'nikov, V.K. and Fadyashin, I.L.

598

AUTHORS: TITLE:

Built-up Reamers and Boring Disc Cutters provided with Carbide Inserts for the machining of Cast Iron Housing Components. (Razvertki Sbornyye I Rastochnyye Plastiny, Osnashchennyye Tverdym Splavom, Dlya Korpusnykh Detaley Iz Chuguna).

PERIODICAL:

"Stanki i Instrument" (Machine Tools and Cutting Tools, No.3,

1977, pp.31-33 (U.S.S.R.).

ABSTRACT:

In the All Union Scientific Research Institute of the Tool Industry (VNII) designs of built-up adjustable reamers and floating disc shaped boring cutters with carbide cutting tips have been developed which permit repetition work to class 1 and class 2 precision and are claimed to reduce machining time by a factor of two or three. Designs for reamers between 40 and 300 mm diameter are illustrated in cross-section. The design of boring disc cutters between 70 and 400 mm diameter is also illustrated. In both tools regrinding is preceded by the shimming of the carbide tips to restore the original size. Detailed instructions for re-sharpening are given.

There are 4 illustrations.

Card 1/1

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PHASE I BOOK EXPLOITATION 50V/5561

Moscow. Dom nauchno-tekhnicheskoy propagandy.

Vycokonrelzveditel'ney rezhushchly instrument [sbornik] (Highly Productive Culting Tools; Collection of Articles) Moscow, Massacit, 1961. 35% p. Errata slip inserted. 10,000 copies printed.

Sponsorine Agency: Obshchestvo po rasprostraneniyu politicheskikh I nauchnykh zanaty RSFSR. Moskovskiy dom nauchno-tekhnicheskoy propagandy imeni F. E. Dzerzhinskogo.

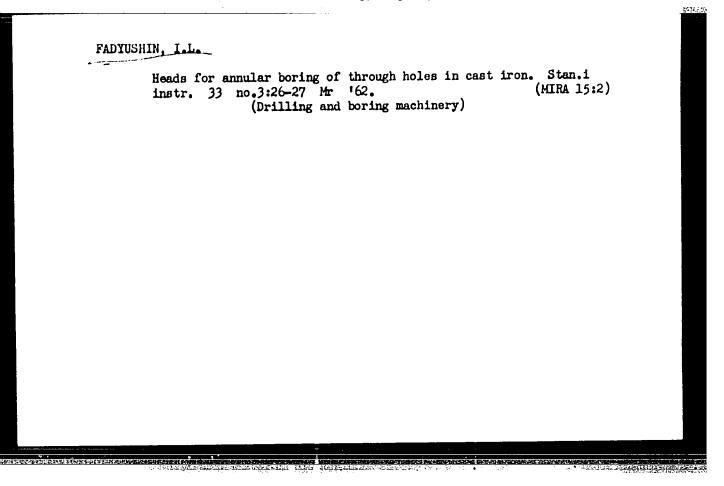
Ed. (Title page): N. S. Degtyarenko, Candidate of Technical Sciences; Ed. of Publishing Mouse: I. I. Lesnichenko; Tech. Ed.: Z. I. Chernova; Managing Ed. for Literature on Cold Troatment of Metals and Machine-Tool Making: V. V. Rzhavinskiy, Engineer.

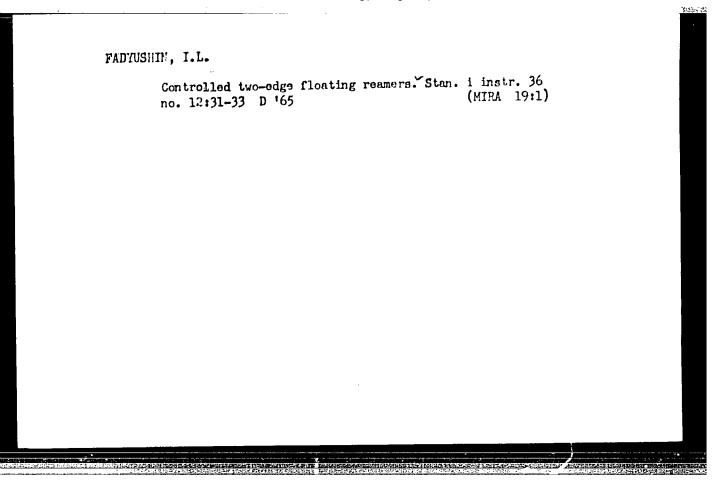
PURROSE: This collection of articles is intended for technical personnel of machine, instrument, and tool plants.

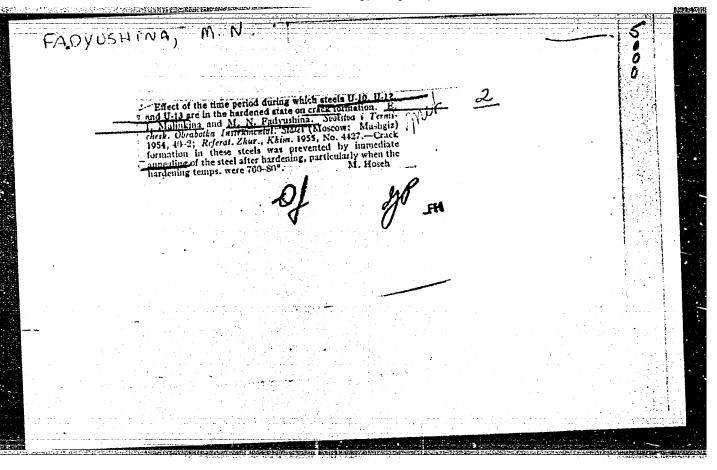
Card-1/6.

1		17			
	Highly Productive Cutting Tools (Cont.) SOV/5581				
	COVERAGE: The collection contains information on the following:  new brands of high-speed steels and hard alloys; designs of built-up tools and tools for the machining of holes; tools for machining heat-resisting and light-metal alloys and plastics; tools for unit-read machines and automatic production lines; and methods for the sharpening and maintenance of carbide- tipped tools. No personalities are mentioned. There are 56 references, mostly Soviet. References accompany some of the articles.		The region of the second control of the seco	•	
	TABLE OF CONTENTS:	3			
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Highly Productive Cutting 10015 (10015)	30V/5581	
Smirnov, F. F. [Candidate of Technical Sciences]. Carbide Alloys for Cutting Tools		
II BUILT-UP TOOLS AND TOOLS FOR MAC	HINING HOLES	
Akimov, A. V. [Candidate of Technical Sciences]. of Single-Point Tools	Advanced Designs	
Moromov, F. I. (From the Experience of the Zavod Plant imeni Kalinin). Application of Coramic Mate	imoni Kalinina orialo 65	
Yeremeyeva, N. M. Geometry of Tools for the Mach		*
Fadyushin, I. L. Carbide-Tipped Boring Tools for in Framo-Type Parts	r Machining Tobes	
Erenkrants, L. G. Tool Designs for Machining Pro	ecision Holes 111	
Markov, R. I. New Design of a Broach With Carbi	ide Blades 128	:
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GELLER, Yu.A.; FADYUSHIMA, M.M.

Microscopic method of determining decarbonization in tool steels.

Zav.lab. 26 no.3:307-310 '60.

1. Vsesoyuznyy nauchno-issledovatel'skiy instrumental'nyy institut.

(Steel alloys--metallography)

(Oarbon)

3/137/62/000/002/088/144. A060/A101

AUTHORS:

Geller, Yu. A., Fadyushina, M. N.

TIME

Determination of residual austenite by the magneto-metallographic

method

STEP CODICAL.

Card 1/1

Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 70, abstract 2147

(V sb. "Metodika i praktika metallogr. issled, instrum, stali".

Moscow, Mashgiz, 1961, 44-50)

The magneto-metallographic method proposed by the authors makes it possible to establish the presence of residual austenite by examination of specimens under a microscope and to determine the distribution of residual austenite in the structure. The magneto-metallographic method was checked by testing the steels XBF, 9XC, P9, and P18 (KhVG, 9KhS, R9, and R18). It is shown that the results of the magneto-metallographic method coincide with the data obtained by the magnetic X-ray structure analyses. The magneto-metallographic method possesses a high sensitivity and is very expedient for determining the residual austenite in a multiphase alloy, and is also convenient for controlling the tempering of high-speed steel.

[ Nikitina ]

S/137/62/000/002/091/14-A060/A101

AUTHORS:

Geller, Yu. A., Fadyushina, M. N.

IIILE:

Determining decarbonization in alloy steel from intermediate trans-

formation

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 71, abstract 21474

(V sb. "Metodika i praktika metallogr. issled. instrum. stali".

Moscow, Mashgiz, 1961, 60-65)

A description is given of the comparative determination of the thickness of the decarbonized layer using three methods - the method of chemical analysis, the method of V. D. Sadovskiy, and the method of A. A. Popov and M. S. Mikhalev, carried out in order to estimate the precision of the last mentioned method and the feasibility of its application to tool steels. The steel grades y12, y11 x B, x. 9 x C, x B r, 95 x r B, and 8 CBM(U12, U11KhV, Kh, 9KhS, KhVG, 95KhGSV, and 8SVM) were investigated. The specimens had a cross-section 8 x 8mm. All the steels to be decarbonized were soaked in a hydrogen stream at 900°C; in order to obtain the initial structure the specimens were annealed at 780°C for 4 hours. Then the specimens were heated up in a reducing vat and cooled to

Card 1/2

S/137/62/000/002/091/144 A060/A101

Determining decarbonization in alloy ...

450 - 300°C (the region of intermediate transformation) and were scaked for 180 sec. The dark-staining zone, representing the transformation products in the intermediate region was taken as the thickness of the decarbonized layer. It was established that the method proposed by A. A. Popov and M. S. Mikhalev is applicable only to alloy tool steels, but not to carbon steels. For hypereutectoid steels the method yields somewhat low values of the thickness of the decarbonized layer. This method may be used to check the decarbonization in a finished tool, where the specimens or parts of the instrument should have a diameter or thickness \(\big(1000)\) nm. Treatment schedules for the specimens are cited.

V. Ferenets

[Abstracter's note: Complete translation]

Card 2/2

S/137/62/000/002/093/14 A060/A101

AUTHORS:

Smol'nikov, Ye. A., Fadyushina, M. N.

TITLE

Determining decarbonization in steel containing 12% Cr, by the use

of pearlitic transformation

PERICDICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 71, abstract 21476

(V sb. "Metodika i praktika metallogr. issled. instrum. stali". Moscow, Mashgiz, 1961, 66-68)

An investigation was carried out upon two methods of fixing the decarbonized layer and determining its depth in steel grade  $\chi$  12 (Kh12). The TEXT: first method is based on the fact that the bainite transformation in the zone with lowered C content occurs earlier than in regions with higher C content. The second method is based on the nonsimultaneous transformation of supercooled austenite in the pearlitic region in zones with differing C contents. The recommended hardening schedule for the first method is: heating up for hardening to 1,000 - 1,025°C, cooling in saltpeter at 375 - 390°C for 10 - 20 min and thereupon in water. According to the second method the heating temperature for hardening is 1,000 - 1,025°C, cooling in a salt vat (78% BaCl<sub>2</sub> + 22% NaCl) at

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#### "APPROVED FOR RELEASE: Thursday, July 27, 2000

Card 2/2

CIA-RDP86-00513R00041233

S/137/62/000/002/093/144

Determining decarbonization in steel ... A060/A101

725°C for 10 min and then in oil. It is noted that both methods yield results which coincide. The values of the depth of the decarbonized layer obtained by the two methods are cited.

V. Ferenets

[Abstracter's note: Complete translation]

s/137/62/000/005/094/150 A006/A101

AUTHORS:

Gulyayev, A. P., Fadyushina, M. N.

TITLE:

Red-heat resistance of high-speed steel

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 62 - 63, abstract 51373 (V sb. "Metodika i praktika metallogr. issled. instrum. stali",

Moscow, Mashgiz, 1961, 70 - 75)

To develop a method of testing red-heat resistance of high-speed steel, the authors studied the effect of the method and duration of heating and TEXT: repeated heating upon the reduction in hardness, measured at room temperature. The investigations were made on grade P 9 (R9) steel quenched from 1,230°C and tempered 3 times at 560°C. Red-heat resistance tests are conducted as follows: specimens of a given heat are treated under conditions recommended for the given steel grade; they are then heated to 575°C with 4 hours holding time, air-cooled, and their hardness is measured. These specimens are then heated to 600°C, held for 4 hours, and the same operation is repeated and extended to 700°C. The results obtained are used for the plotting of a "hardness versus 4-hour heating-

Card 1/2

CIA-RDP86-00513R000412330 APPROVED FOR RELEASE: Thursday, July 27, 2000

s/137/62/000/005/094/150

Red-heat resistance of high-speed steel

temperature" curve. The temperature causing a decrease in the steel hardness down to a given value, as e.g. to 58 RC, is taken as a red-heat resistance standard. Standards of red-heat resistance are given for 9 high-speed steel grades.

N. Kalinkina

[Abstracter's note: Complete translation]

Card 2/2

88283

S/032/61/027/001/015/037 B017/B054

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Smol'nikov, Ye. A., Fadyushina, M. N.

TITLE:

AUTHORS:

New Method of Determining the Decarbonized Layer in

X-12 (Kh-12) Steel

PERIODICAL: Zavodskaya laboratoriya, 1961, Vol. 27, No. 1, p. 62

TEXT: Gradual hardening was recommended to develop the decarbonized layer in the perlite region of Kh-12 steel. The steel specimen was heated to 1000-1050°C, then cooled down to 750°C, kept at this temperature for 10 min, and subsequently hardened in oil. After development by etching, the decarbonized layer in steel becomes visible as a dark stripe. Gradual hardening was also recommended to develop the decarbonized layer in the beynite region. The steel specimen was heated to 1000-1025°C, cooled down to 375-390°C, kept at this temperature for 10-20 min, and then hardened in water. The decarbonized layer in steel shows a needle structure after development by etching.

Card 1/2

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88283

New Method of Determining the Decarbonized Layer in X-12 (Kh-12) Steel

S/032/61/027/001/015/037 B017/B054

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy instrumental'nyy institut (All-Union Scientific Research Institute of Instruments)

Card 2/2

24159 \$/032/61/027/005/005/017 B119/B215

18.9100

AUTHORS:

Geller, Yu. A. and Fadyushina, M. N.

TITLE:

Application of the magnetic-metallographic method for the determination of residual austenite in the steel structure

PERIODICAL:

Zavodskaya laboratoriya, v. 27, no. 5, 1961, 562-565

TEXT: The magnetic-metallographic method is based upon the principle that in spontaneous magnetization colloidal magnetic particles evenly distributed on the polished steel surface are attracted by the ferromagnetic phases of the alloy. Non-magnetic phases (austenite, alloyed cementite, and carbides of alloying metals) no longer contain such particles and, thus, appear as light spots under the microscope (in contrast to the magnetic phases which are darkened by the particles covering them). The authors studied the possibility of applying this method for the determination of residual austenite in martensite-base steels and alloys (alloy instrument steels: X3F(KhVG), 9XC(9KhS); high speed steels: P9(R9), P18(R18)) after different heat treatment of specimens and finished instruments. The results

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Card 1/2

Application of the ...

2l<sub>1</sub>159 S/032/61/027/005/005/017 B119/B215

obtained are in good agreement with those of magnetic and X-ray structural analysis. This method was also suited for determining very small amounts of austenite which could not be determined by the other two methods. It was also possible to eliminate differences in the results obtained by dilatometric and magnetic analyses. The method is especially suited for the determination of residual austenite in multiphase alloys and the continuous control of annealing high-speed steel immediately in instruments. There are 4 figures and 1 Soviet-bloc reference.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy instrumental'nyy institut (All-Union Scientific Research Institute of Instruments)

Card 2/2

MALINGINA, Yell.; LOMAKIN, Y.N.; FADISHAINA, M.N., BASCHEVA, A.S.

Bifact of a carbide lattice on the properties of hyporentectoid steel. Standartizatalia 27 no.12:29-31 5 '51. 'MIR' 17:4)

L 40824-66 EWT(m)/EWP(w)/T/EWP(t)/ETI IJP(c) UR/0121/66/000/006/0030/0031 SOURCE CODE: ACC NR: AP6019204 AUTHOR: Fadyushina, M. N.; Malinkina, Ye. I. ORG: None TITLE: Industrial use of R12 steel SOURCE: Stanki i instrument, no. 6, 1966, 30-31 hardness, plasticity, metal welding, crack propagation, ductility/ R12 steel, R18 steel ABSTRACT: The results of tests carried out at various plants indicate that R12 steel can replace R18 steel satisfactorily. Many cutting tools have been made from this steel in recent years. The chemical composition for R12 steel is 0.8-0.9% C, 12-13% W, 341-3.6% Cr and 1.5-1.9% V. Impurity elements are within the limits specified for high-speed cutting steel. R12 steel does not present any problems #s far as production is concerned. Various specimens were made from both R12 and 118 steel and subjected to various tests. Analysis shows that R12 steel is ductile in the 900-1200°C range and has a higher ductility than that of R18 steel by a factor of 1.5-2. R12 steel was tested by welding to 45 and 40Kh steels under conditions for welding R18 steel. No difficulties were encountered during welding. Crack formation during welding was checked by periodic inspection of the specimens. Cracks were noticed in R12 UDC: 669.14.018.252.3.7 Card 1/2

L 40824-66 ACC NR, AP6019204

steel with a decarbonized surface. Crack formation was not observed in the majority of cases when similar experiments were performed using samples whose surfaces were not decarbonized. Cutting tools were made from R12 steel using the same production techniques as required for R18. The results show that R18 step1 products require less polishing than R12, while the two grades are otherwise similar. The effects of heat treatment(ware considered. The results show that red hardness is normal (RC 58) for R12 steel only in specimens with a diameter of less than 5 mm. Samples with larger diameters show reduced red hardness. These results show that R12 is only slightly different from R18. The operational properties of R12 and R18 steels are compared. Cutting tools made from R12 steel are as good as those made from R18. Only one case was reported where R12 steel products were considered inferior to R18 products. This is explained by the fact that the materials machined by the cutters made from R12 steel were harder. Cutting tools made from R12 steel may be used for working structural steel with a hardness of up to HB 250. Among the various advantages of R12 steel are the fact that it is less expensive than R18 steel and may be polished more easily than R9. Orig. art. has: 4 tables.

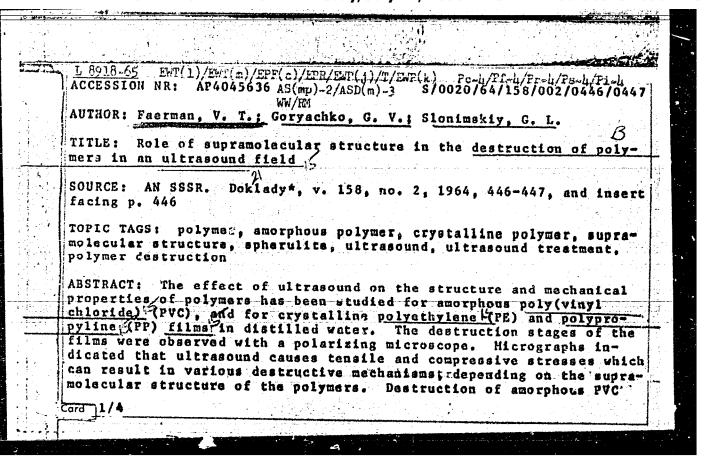
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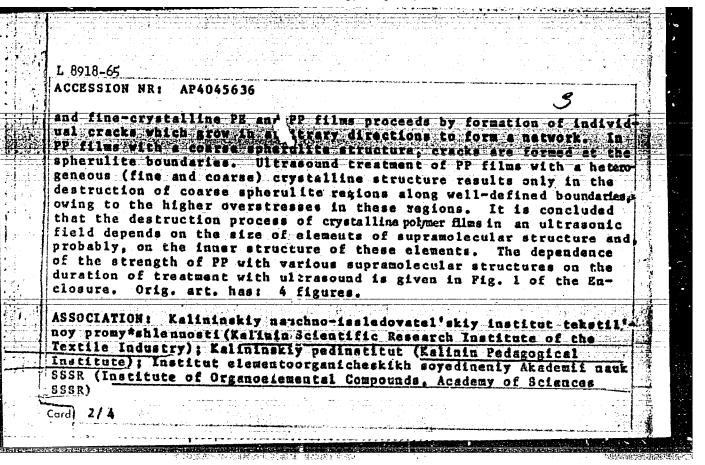
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FADYUSHINA, M.P., inzh.; RYSAKOV, N.F., kand. tekhn. nauk, dotsent

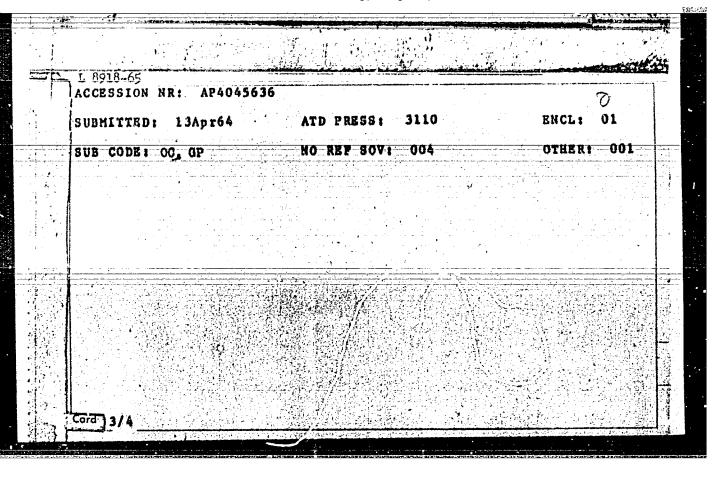
Study of the mixing unit of a reactor. Izv. vys. ucheb. zav.; energ. 7
no.8:121-125 Ag '64. (MIRA 17:12)

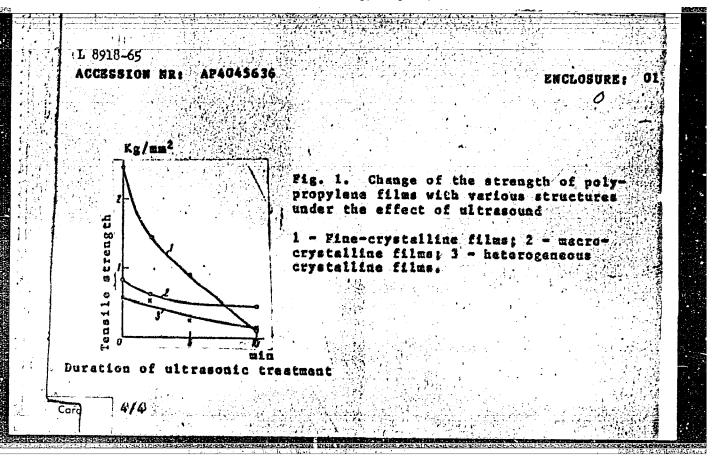
l. Uraliskiy politekhnicheskiy institut imeni S.M.Kirova. Predstavlena kafedroy teplovykh elektricheskikh stantsiy.





"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041233





## Fafara, E.

Over 47 thousand zlotys. p. 5.

ROLAIK SECKIZIELOA. (Centrala Rolniczej Społkzielni "Sampopmoc Chlopoke") Marszawa, Poland. Vol. 8, no. 32, Aug. 1955.

Monthly list of East European Accessions (STAI) LC, Vol. 9, no. 2, let. 1960

Uncl.

First decennial. p. 3; ROINIK SPOLDZIELCA. (Centrala Rolnicza Spoldzielni "Samopomoc Chlopska") Warszawa; Vol. 8, no. 18, May 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress, Vol. 4, No. 12, December 1955.

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So: Nonthly Mat of West European Accessions, (mad., Vol. 4, no. 11, Cct. 1955, Uncl.
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The peasants themselves fight against deficiencies. p. 8.

SO: Monthly list of East European Accessions List, (EFAL), LC, Vol. 4, No. 11

Nov. 1955, Uncl.

FAFARA, E.

After a Party-economic conference in Lomza, p.3.

ROLNIK SPOKSZIELCA. (Centrala Rolniczij Spolkzielni "Sampopomoc Chlopska") Warszawa, Poland. Vol. 8, no. 36, Sept. 1955.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

#### FAFARA, E.

107, 2 per cent of the plan in August. p. 4

RCINIK SPOKDZIELCA. (Centrala Rolniczej Społkzielni "Sampopomoc Chlopska") Warszawa, Poland. Vol. 8, no. 37, Sept 1955.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb 1960

Uncl.

FAFARA. E.

FAFARA, E. How they accomplish their plans. ; . 4. Vol. 8, no. 47, Nov. 1955. RGINIK SPCILLZIELCA. Warszawa, Poland.

SOURCE: Fast European Accessions List (EEAL) LC Vol. 5, no 6, June 1956

FARMA E.

At the winter fair in Ostrowia Minowiceka. p. A.
Precommess competition. p. 5.
(KS). Now incontives for the development of livestack breeding. p. 5.
(KS). Now incontives for the development of livestack breeding. p. 5.
Vol 8, no. 50, Dec. 1955. Gosparation, a condition of auccount. p. 1. Fur compress pledges, p. 1. ROLMIK SPOLDSIELGA. Marsaw, Polond.

So: Eastern European Accession. Vol 7, no. 4, April 1956

FAFARA, E.

FAFARA, E. Fertilizers in Grojec District. p. 8.

Vol. 9, no. 6, Feb. 1956 ROLNIK SPOLDZIELCA AGRICULTURE Poland

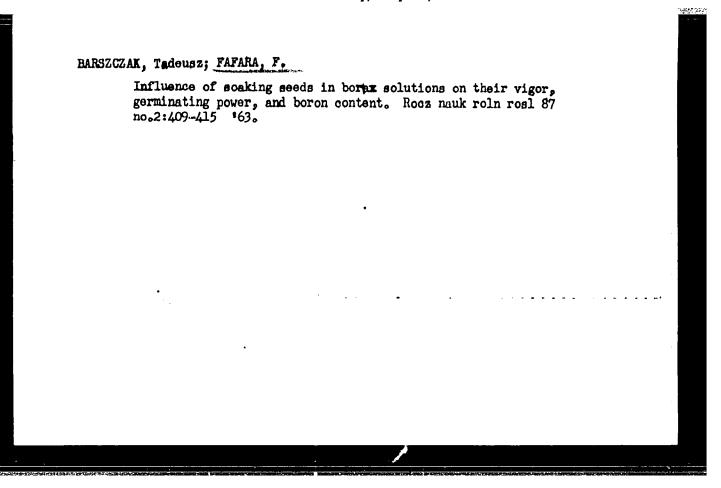
So: East European Accession, Vol. 6, No. 5, May 1957

FAFAPA, E.

FAFARA, E. The vadium fines can be avoided. p.  $l_i$ . Fairs should be prepared better in Jedwabne. p.  $l_i$ .

Vol. 9, no. 20, May 1956 ROLNIK SPOLDZIELCA AGRICULTURE Poland

So: East European Accession, Vol. 6, No. 5, May 1957



FAFARA, R.

Polish-made binders in this year's harvest work. p. 25. We build clay pits for silag. p. 26. (PLON. Vol. 4, No. 7, 1953.)

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954

FAFARA, R.

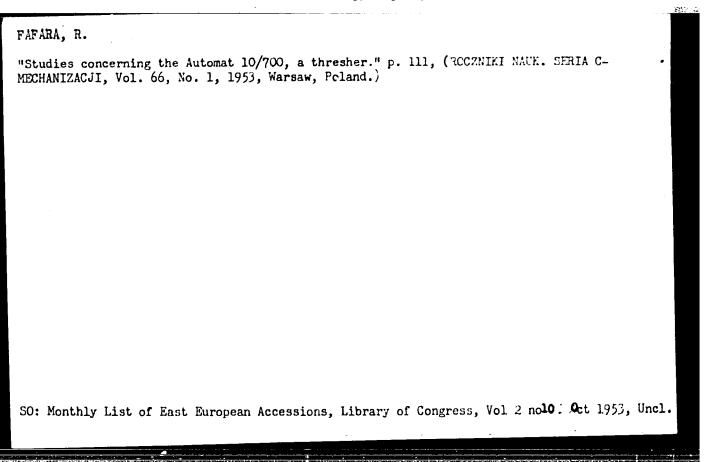
"Nema thresher, a product of the German Democratic Republic" (p. 13) MECHANIZACJA I ELEKTRYFIKACJA ROLNICTWA (Panstwowe Wydawnictwo Rolnicze i Lesne) Warszawa, Vol 6, No 2, Apr/June 1953.

SO: East European Accessions List, Vol 3, No 8, Aug 1954

#### FAFARA, R.

"A straw and husk gatherer constructed by the Institute for Mechanization and Electrification of Agriculture, adjusted to an S-4 combine" (p. 60) MECHANIZACJA I ELEKTRYFIKACJA ROLNICTWA (Panstwowe Wydawnictwo Rolnicze i Lesne) Warszawa, Vol 6, No 2, Apr/June 1953.

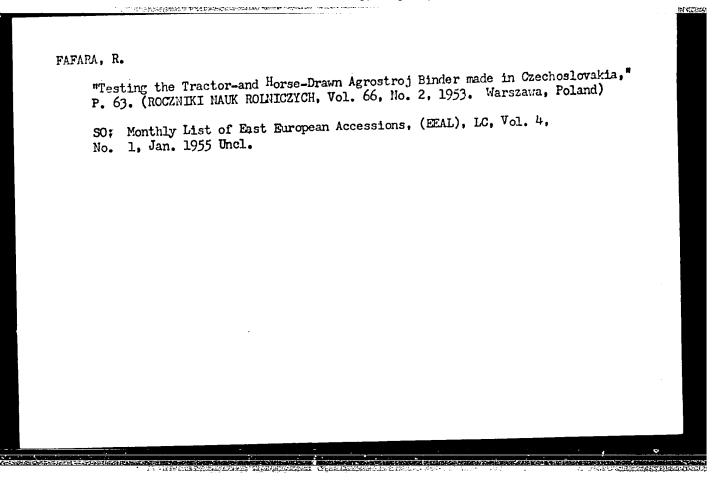
SO: East European Accessions List, Vol 3, No 8, Aug 1954



FAFARA, R.

"Studies on clover threshers." p. 112, (ROCENIKI NAUK. SERIA C-MECHANIMACUI, Vol. 66, no 1, 1953, Warsaw, Poland).

So: Monthly List of East European Accessions, Library of Congress, Vol 2 noibl Oct 1953, Uncl.



FAFARA, R.

"Testing Potato Diggers," P. 77. (ROCZNIKI MAUK ROINICZYCH. Vol. 66, No. 2, 1953. Warszawa, Poland)

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

FAFARA, F.

Tests with the Automat 10/100 throshing machine manufactured in Czechoslovakia, p. 41.

(FOCZNIKI NAUK POLINICZYCH, Warszawa, Vol. 66, no. 3, 1953)

SO: Menthly Listof EastEuropean Accessions, (EEAL), LC, Vol. 4, No. 6, Jun. 1955, Uncl.

FATHRA, R. 1 13 - 55 Falara II. Hammer Bills. "Rozdrabniacze bljakowe". Mechanizacja is infetie (16) 2-4, 1 49, pp. 37-40, 6 figs. The author reviews the advatages from the use of a successfully and deals with the theory of breaking and greater out by mills of this type, He also gives a comb out at of Soviet MDU-4 and DKM-0.1, Hongarita Ad-12 and black Makin (RH-2) type hummer mills. Constructional features of the same are feed hopper with side supply to the cricking chamber facilitating feeding the hay, hammers pivoted do a disc, and a perlaneal speed of 74 metres per second at 3300 rp.m. It was found accessory, where a higher moisture content in the material was being in it with and in order to ensure unvaried performance of the marking, to run id incrossed speeds. Experiments have also reveated that notice with personal hammers are more universal and can be used alike for exinding attains and chaff hay containing up to 20 per care nearly a christian and conshing at higher speeds is more economical and include feed system close to the axis of rotation more effective -- particularly in the current hay - since better use can be made of the air cure no generated by the rotor. The hammers should be of restangular shape and 5 sam thick The mean grind in grains is obtainable with 31/s to 4 can meed, sieven, is 2 to 21/2 mm sleve is required for crushing chaff and counding it to powder. A 10 kW electric motor with star-delta switching starter nomeans to be the most sulfable for driving the Billed harmon with

FAFARA, R.

ACRICULTURE

PERIODICAL: ROCZNIKI WAUK KOLNICZYCH VOL. 57, no. 3, 1958

FAFARA, R. The problem of wrapping in threshing machine beaters. p.323.

Monthly List of East European Accessions (EEAI) LC, Vol 8, no 4.

April 1959, Unclass

Pevelopment trends in the technology of grain drying and storing in Poland. Zesz probl post nauk roln no. 44:257-292 '64.

1. Institute of Mechanization and Electrification in Agriculture, Warsaw.

PAVLOV, V.A.; PONYRKO, S.A.; KHOVANSKIY, Yu.M.; FAFAYEVA, G.I., red.; DANILOVA, V.V., red.

[Stabilization of aircraft and automatic pilots] Stabilization letatel'nykh apparatov i avtopiloty. Moskva, Vysshaia shkola, 1964. 483 p. (MinA 17:8)

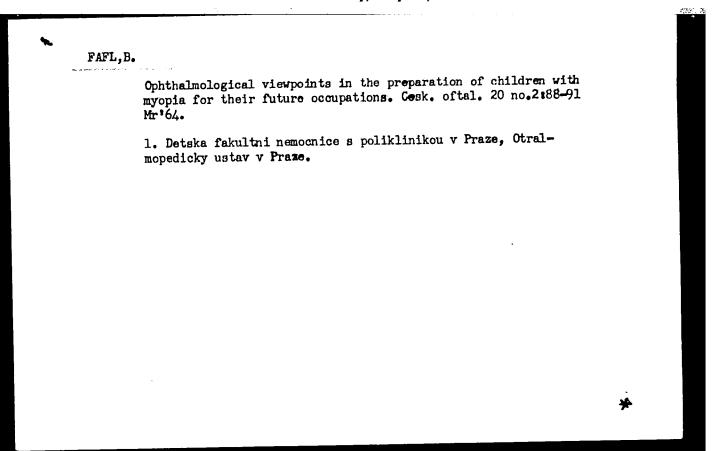
FAFL, B., MUDr.; NOVAKOVA, M., MUDr.

Dispensary services for children with ocular diseases and defects.

Zdrav. aktuality no.147:148-157 '61.

(OPHTHALMOLOGY) (HOSPITAL OUTPATIENT SERVICE)

(PEDIATRICS hosp & clin)



RUMP, Slawomir; FAFF, Jerzy

Treatment of phospho-organic insecticide polsoning. Pol. tyg. lek. 19 no.51:1977-1980 21 D \*64.

1. Z Osrodka Badawczego (przetu Chemicznego.

