METELKIN, G.G., inzh.; BATAGOV, V.M., inzh.

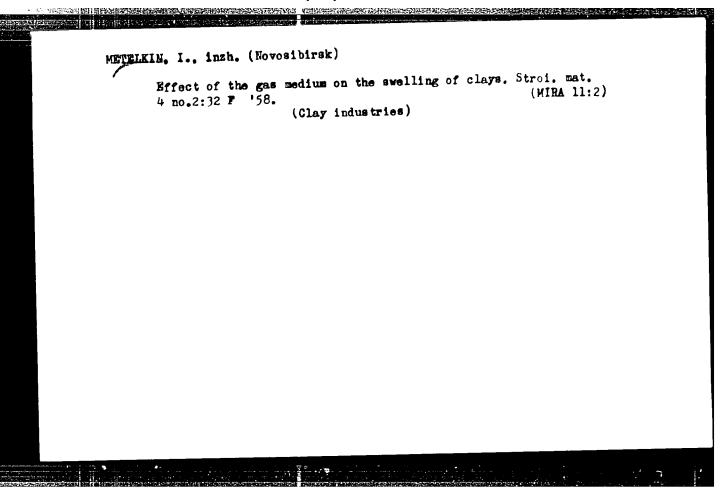
Standardization of light partition elements. Sudostroenie 25 no.12;47-48 D '59. (MIRA 13:4)

(Bulkheads (Naval architecture))

METELKIN, G.G., inzh.; KRECHMAN, B.K., inzh.

Replacing right pipelines by flexible rubber-fabric hose. Sudostroenie 29 no.4:60-Gl Ap '63. (MIRA 16:4)

(Marine pipe fitting) (Hose)



KRIVITSKIY, M.Ya., starshiy nauchnyy sotrudnik; LEYRIKH, A.A.; METELKIN, I.D.

Plant producing air-entrained concrete articles in Novosibirsk.

Stroi_mat. 7 no.5:23-27 My *61. (MIRA 14:6)

1. Nachno-issledovatel'skiy institut betona i zhelezobetona
Akademii stroitel'stva i arkhitektury SSSR (for Krivitskiy).
2. Glavnyy inzhener upravleniya promyshlennosti stroitel'nykh
materialov Novosibirskogo sovnarkhoza (for Leyrikh). 3. Glavnyy
tekhnolog Novosibirskogo otdeleniya proyektnogo instituta No.2
(for Metelkin).

(Novosibirsk—Concrete plants) (Air-entrained concrete)

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- 71 --

SOV/70-3-1-12/26

Indenbon, V.L. and Metelkin, I.I.

Application of Artificial Anisotropy to Directed Fracture of Materials (Ispol'zovaniye iskusstvennoy anizotropii AUTHORS: dlya napravlennogo razrusheniya materiala) (The Artificial "Cleavage" Effect) (Yavleniye iskusstvennoy "spaynosti") TITLE:

Kristallografiya, 1958, Vol 3, Nr 1, pp 80 - 82

PERIODICAL:

ABSTRACT: Synthetic anisotropic materials have been found useful in applications where a high mechanical strength was required in a particular direction. For example, combination of glass fibre and plastics2resulted in sheet material with a tensile strength of 100 kg/mm2. Artifical anisotropy can be produced either by a combination of two or more materials or by establishment of a certain distribution of internal stresses in an initially isotropic material. The present paper deals with an application of artificial anisotropy to production of fracture in a predetermined direction, i.e. formation of an artificial cleavage plane along which binding between atoms or ions is weakened. An example of directed fracture is a glass tube which snaps easily at the point where it was earlier heated locally. Such a tube is shown in polarised light in Figure 1; colour photographs in Cardl/2 polarized, light are reproduced in a plate (Figures 2, 3).

SOV/70-3-1-12/26

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Application of Artificial Anisotropy to Directed Fracture of Materials

Figure 4 shows the plot of elastic energy liberated on fracture of the glass tube of Figures 1-3 at distances from 0 to 7 mm on both sides of the cross-section which was preheated. The optimum fracture occurs in a narrow region which can be regarded as a cleavage plane. It was found also that if a crack starts outside the artificial cleavage plane, it tends to grow in the direction of that plane. This "self-focusing" property is very useful in practice since it helps to achieve fracture at a pre-determined cross-section. Figure 5 shows that directed fracture can be achieved in tubes of varied shapes: from very wide tubes with thin walls to thick-walled tubes with a narrow bore. There are 5 figures and 8 references, 6 of which are Soviet and 2 English.

ASSOCIATIONS Institut kristallografii AN SSSR (Institute of

Crystallography of the Ac.Sc.USSR)

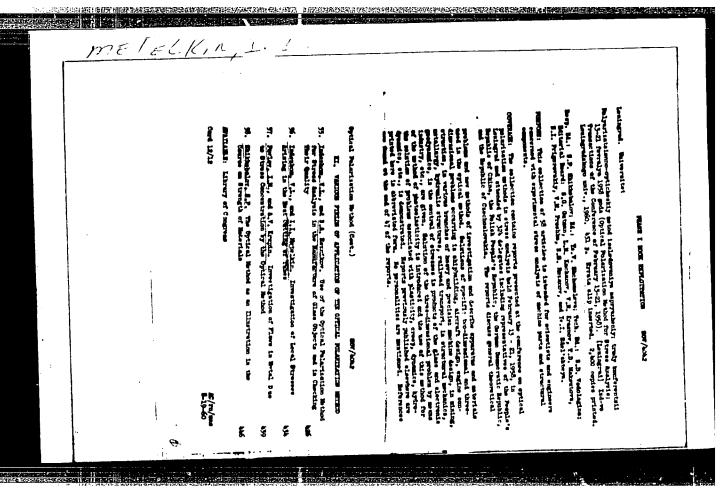
Soyuznyy nauchno-issledovatel'skiy institut radiotekhnicheskoy promyshlennosti (Scientific Besearch Institute

of the Radio-technical Industry)

SUBMITTED: January 12, 1957

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Card 2/2



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	TITLE: Method of brazing ceramics to metals. Class 49, No. 170826	
	SOURCE: Byulleten! izobreteniy i tovarnykh znakov, no. 9, 1965, 114	
	TOPIC TAGS: brazing, ceramic brazing, brazing alloy, ceramic to metal brazing, ceramic bonding	rigin Mariji Mariji
	ABSTRACT: This Author Certificate introduces a method of brazing ceramics to metals in which the ceramic part is coated with metal-lizing paste to facilitate bonding. To increase the strength of the joint and to simplify the process, the parts to be brazed are put together, the brazing alloy is placed over the paste, and the parts are heated up to the brazing temperature.	
	ASSOCIATION: Organizatelya gosudarstvennogo komiteta po elektronnoy tekhnike SSSR (Organization of the State Committee for Electronic Engineering, SSSR)	
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AID P - 4845

: USSR/Engineering Subject

Pub. 103 - 5/26 card 1/2

Metelkin, I. V., V. E. Popov, et. al.

Machining of various materials with help of ultrasonic Authors Title

vibrations.

Stan. 1 instr., 2, 16-19, F 1956 Periodical

The authors present the principles and the use of Abstract

ultrasonic oscillation in the processing of various materials. They describe the magnetostrictive emitter, which was built for drilling hard metals like titanium, hardened steels, synthetic precious stones, glass and similar materials. They illustrate the construction, operation, attchments and the abrasives and ingredients utilized in ultrasonic drilling and finishing of hard surfaces. They suggest this method to improve such hazardous and tedious work as engraving, polishing

precious stones, etc. Five photos, 2 drawings, 3 graphs

and 1 table.

AID P - 4845

Stan. 1 instr., 2, 16-19, F 1956

Card 2/2 Pub. 103 - 5/26

Institution: None

Submitted : No date

METEL & N I.V.

117-58-5-17/24

AUTHORS:

Metelkin, V.V., Engineer and Metelkin I.V., Candidate of

Technical Sciences

TITLE:

Instrument for Ultrasonic Cutting (Instrument dlya ul'tra-

zvukovoy obrabotki)

PERIODICAL:

Mashinostroitel', 1958, Nr 5, pp 35-38 (USSR)

ABSTRACT:

In ultrasonic cutting, the material is destroyed by means of an abrasive powder which is in a state of suspension in the liquid. The passage of ultrasound through the liquid produces cavities or bubbles which at the moment of bursting bring about a sharp sudden knock. After dwelling on the theory of the ultrasonic wave effect, the article deals with the mathematical calculation of the instrument and the speed transformer. Figure 2 shows a type of instrument used for ultrasonic cutting. The different materials from which it can be made are mentioned. One end of the instrument is threaded for fixing to the transformer; this end must be very carefully machined to obtain a perfectly plane surface of contact. The advantage of the ultrasonic method lies in the great simplicity of the instruments. During the process

Card 1/3

Instrument for Ultrasonic Cutting

117-58-5-17/24

of cutting, the working part of the instrument is subjected to wear (Figure 3). "ear on the end of the instrument is much faster than on the circumference. Wear is also irregular; the greatest amount of wear takes place where the metal is thinnest. The table on page 37 shows the wear on a cylindrically shaped instrument with an outer diameter of 6 mm and an inner diameter of 4 mm. The duration of work is the same in all cases, frequency = 18.7 k-cycles, amplitude = 0.1 mm, abrasive material boron carbide 230. The readings given refer to different materials processed with instruments of different kinds of metal. The most wear-resistant metal is steel EYaIT. Experience proved that instruments hardened by thermal treatment are less wear-resistant than unhardened ones. Ultrasonic work is dore with one-piece or two-piece instruments. The twopiece instruments are more economical but the connection between the two parts must be soldered. In certain cases though soldering will not suffice; the connection must be pressed, prior to being soldered. For obtaining accurate openings, the instrument chosen should be a one-piece instrument, part of the

Card 2/3

Instrument for Ultrasonic Sutting 117-58-5-17/25

speed transformer. There are 5 figures and one table.

AVAILABLE: Library of Congress

Card 3/3 1. Machining-Ultrasonic methods 2. Mathematical analysis

007-117-58-10-7.35

AUTHORS: Metelkin, V.V., Engireer, Metellin, V., Candidate of Tech-

nical Sciences

TIPLE: The Physical Frinciples of Ultrasonic Treatment (Fiziches-

kiye osnowy ul trazwakovoy obratotki,

PERIODICAL: Mashinostroite, , 1958, Nr 10, pp 9 - 10 (UCOR)

ABSTRACT: Of 3 types of ultrasonic oscillations, electrodynamical -

up to 20,000 hz, magnetostriction - between 10,000 and 150,000 hz, and prezelectrical - over 100,000 hz, magnetostriction-caused waves are most often used for the treatment of brittle materials. This treatment is done at frequencies between 16 and 40 khz. The magnetostriction emitters are simple, strong and reliable in operation. The physical and accustical principles of the magnetostriction vibrators as laid down by the English physicist Reley are

presented and explained.

1. Magnetostrictive resonators-Operation 2 Ultrasonic radiation

---Propagation

Card 1/3

NICTCCAIN, I.V.

25(1) PHASE I BOOK EXPLOITATION SOV/1932

Moscow. Aviatsionnyy tekhnologicheskiy institut

- Issledovaniya v oblasti tekhnologii aviadvigateley; [sbornik] (Studies in the Field of Technology of Aircraft Engines; Collection of Articles) Moscow, Oborongiz, 1959. 100 p. (Series: Its: Trudy, vyp. 36) 2,100 copies printed.
- Ed. (Title page): A.S. Ivanov, Professor; Ed. (Inside book):
 S.I. Bumshteyn, Engineer; Ed. of Publishing House: N.A. Gortsuyeva;
 Tech. Ed.: V.I. Oreshkina; Managing Ed.: A.S. Zaymovskaya,
 Engineer.
- PURPOSE: This book is intended for engineering and technical workers, scientific research institutes, for teachers, aspirants, and students of higher educational institutions specializing in the technology of machine building.
- COVERAGE: This is a collection of articles generalizing the results of the research work done by the Department of Aircraft Engine Card 1/6

Studies in the Field of Technology (Cont.)

sov/1932

Technology of MATI (Moscow Aviation Technological Institute). The articles deal with various branches of technology and economics of the aviation industry. Some of the articles may be of interest to workers outside the aviation industry. The collection describes results of investigations of the following problems: use of centralizing devices in the machining parts on lathes, analysis and design of cutting tools using ultrasonic vibrations, improvement of the quality of dynamic balancing high-velocity rotors, gluing metals, determination of the work required to produce attachments, and the engineering utility of constructions.

TABLE OF CONTENTS:

Foreword

3

Bolotin, Kh.L., Candidate of Technical Sciences, Docent. Investigation of a New Kind of Workholders for High-speed Machining

ל

This article describes investigations of the use of centrifugal force for holding parts during machining operations. Experimental

Card 2/6

Studies in the Field of Technology (Cont.)

SOV/1932

and theoretical investigations were carried out at Moskovskiy tormoznoy zavod (Moscow Brake Plant) and MATI (Moscow Aviation Technology Institute). Mention is made of an instrument with a warm gear drive designed and manufactured by TIZPRIBOR (Heat-measuring Instrument Plant in Moscow). A dynamometer produced by TSNIITMASh (Central Scientific Research Institute of Heavy Machinery and Metalworking) is also mentioned. There are no references.

Metelkin, V.V., and I.V. Metelkin. Design and Calculation of an Ultrasonic Machine Tool

This article describes the shape of the tool, its holding devices, and tool wear. Tools for ultrasonic machining may be made of structural steel 05, 20, 30, 40, 45; of high carbon steels U7, UB, U10; of the alloy D 16T; or of brass or Monel metal. There are 3 references: 1 Soviet, 1 English, and 1 French.

Chistyakov, A.A., Candidate of Technical Sciences. On methods of Determining Allowances in Balancing Rotors of Turbojet Engines

Practical recommendations for reducing vibrations of high r.p.m.

Card 3/6

Studies in the Field of Technology (Cont.)

sov/1932

rotors are given. The investigation was carried on at MATI. First attempts to solve this problem for rotor ventilators "Sirokko" were made by B.V. Shitikov. V.A. Samdylov studied the problem of vibrations of turbine units of electric power stations and rotors.

A.P. Dinerman investigated static and dynamic balancing of steam turbine rotors. N.V. Kolesnik studied static and dynamic balancing of machine parts. To determine the allowable unbalance of rotors the theory of Gerts-Belyayev and the works of G.A. Ignat'yev are recommended. The following instruments are referred to: transmitters EDS, 2UG1-48, MV-21, MG-21; regenerator of sonic frequency ZG-2A; Ferromagnetic electrotachometer type FT-49; electrotachometer type TE-20; oscillograph MPO-2. There are 10 references, all Soviet.

Chistyakov, A.A., Candidate of Technical Sciences. Method of Checking Bearings of Rotors of Turbojet Engines for Admissible Vibrations 54 Recommendations are given for increasing the time limits of rotor-bearing service in turbojet engines. The theoretical investigations were made at MATI. The following equipment is mentioned: Cishol't, Shenk, and Lozengauzen balancing machines; oscillograph MrO-2. Anti-friction brass BrOS10-10 is also referred to. There are no references.

Card 4/6

Studies in the Field of Technology (Cont.) sov/1932 Kasatikov, T.P., Candidate of Technical Sciences, and G.V. Filatov, Engineer. Using Epoxide Glue in the Construction of Tooling 63 Equipment The article describes the advantages of epoxide gluing over other means of joining, such as riveting, bolting, welding, and gluing with other glues. The following products are mentioned: glues BF, PU-2, PU-3; firm coating NIAT-1; tars ED-3, ED-6, E40. There are no references. Preliminary Kasatikov, I.P., Candidate of Technical Sciences. Evaluation of Work Requirements in the Production of Machine 68 Tool Attachments The author presents several methods for preliminary determination of requirements for machine tool preparation. The methods are as follows: (1) total number of codes, (2) volume of design work, (3) standard items, (4) qualitative and quantitative characteristics of typical parts, and (5) design factors (coefficients). Gevorkyan, A.M., Candidate of Technical Sciences. Increasing Work Output and Decreasing Production Costs in Mass Production Plants Card 5/6

Studies in the Field of Technology (Cont.)

sov/1932

The article analyzes basic conditions for increasing productivity and reducing costs in mechanical assembly shops of plants as related to modern technology. It is stated that the works of Professors E.A. Satel', B.S. Balakshin, N.A. Borodachev, and M.G. Aref'yev laid the foundations for a systematic study of engineering utility of design. Professor B.L. Boguslavskiy gives a classification of machine tools according to their degree of automation. Professor S.I. Artobolevskiy classifies machine tools according to productivity. There are no references.

AVAILABLE: Library of Congress

Card 6/6

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1.1100

AUTHORS:

Metelkin, V. V., Metelkin, I. V

TITLE:

Surface finish and accuracy of holes in ultrasoni; machining

PERIODICAL: Mashinostroitel', no. 2, 1962, 29 - 32

TEXT: The authors point out that, although quite a number of Soviet and foreign publications have been devoted to the investigation of the machinability of hard materials, e.g. glass, ceramics, mineral-ceramics, ceramet compounds semi-conductors, etc., the problems of accuracy and, particularly, surface finish have not yet been elucidated sufficiently in literature. Therefore, they present in their article a number of test results concerning the surface finish and accuracy attained with ultrasonic machining of various materials. To determine the effect of the tool oscillation amplitude and the grain size of the abrasive, glass was machined with a tool having a rectangular shape and being 5 x 20 mm in size. Oscillation amplitude A was changed in the range of 50 - 100 μ . The surface finish was measured by a Kiselev-type profilometer. The investigation results are presented in a table. According to the authors, the experimental data confirm the assumption that the surface finish depends both on the oscillation.

Card (1/3)

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Surface finish and...

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amplitude and on the grain size of the abrasive. A better surface finish is octained with small-size grains at low oscillation amplitudes of the tool. On the other hand, the ultrasonic machining process is more efficient if abrasives of ${\tt a}$ larger grain size are used at increased oscillation amplitudes. Therefore, to combine the required surface finish with efficient machining conditions it is recommended to carry out ultrasonic machining in two operations, i.e. a rough and a finish operation. The greater part of the material is removed at maximum oscillation amplitudes of the tool with abrasives of a large grain size, while the finish operation is carried out with fine-grained abrasives at low oscillation amplitudes. To determine the effect of the strength characteristics of the material being machined on the microgeometry of the surface, the autnors machined glass, silicon, UM332 (TsM332) mineral-ceramic and the T30K4 sintered carcide For all materials the oscillation amplitude was 100 μ , while the grain size of the abrasive varied in the range of 100 to 320 mesh. The test results are presented in a graph and a number of tables. It was found that the higher the strength and plasticity of the material being machined, the better will be the surface finish. As to the accuracy of ultrasonic machining, the authors point out that two groups of factors play an important role. The first group includes factors like accuracy of equipment and tools, accuracy of fixtures, accuracy of

Card 2/3

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Surface finish and.

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relative position of tool and component being machined, etc. The second group includes factors which are characteristic only for this machining method, e.g. grain size of the abrasive, wear of the tool cutting part and depth of hole being out. In glass specimens of 4 mm thickness, holes o, 8, and 10 mm in diameter were cut. For all cases the oscillation amplitude amounted to $80\,\mu$. The authors emphasize that in ultrasonic machining the dimension of the hole being out in always larger than the tool dimension. Moreover, if a cylindrical tool is used, the hole produced will always have a tapered shape. It is characteristical that the magnitude of conicity and the magnitude of lateral clearance does not depend on the hole diameter. To obtain an aperture of the given dimension, it is necessar, to reduce the tool diameter by a factor of 2.2 of the maximum size of abrusive of the given mesh number. To reduce the conicity, it is recommended to use a tool which has a reversed taper. The authors recommend, for obtaining an aperture with 0.01 - 0.02 mm tolerance, to carry out machining in two operations. The use of α large abrasive and maximum oscillation amplitudes increases the machining efficiency during the first operation. Finish machining should be parried out with a tool of a reversed taper and no. 240, 280 and 320 mesh abrasive. The authors give some additional recommendations on the machining of other materials, e.g. high-strength steels, titanium alloys, etc. There are 5 figures and 5 tables.

Card 3/3

8/117/62/000/008/004/005 1007/1207

Metelkin, I.V., Metelkin, V.V., and Pleshivtsev, N.V. AUTHORS:

Machining output in ultrasonic cutting TITLE:

PERIODICAL: Mashinostroitel', no. 8, 1962, 33-34

A study is presented of the factors affecting machining output in ultrasonic cutting, and experimental results are reported. Graphs showing the dependence of machining output on the abrasive-grain size, the ultrasonicoscillation and the amplitude, were plotted on the basis of these results. Increasing the abrasive grain-size was found to augment considerably the machining output. The graphs for ultrasonic cutting, although plotted only for the cutting of hard alloys and glass, may also be used for other materials. Appropriate conversion coefficients (given in this paper) should be used. There are 3 figures and 1 table.

Card 1/1

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APPROVED FOR RELEASE: 07/19/2001

THE STATE OF THE PROPERTY OF T

METELKIN, V.V.; METELKIN, I.V.; PLESHIVTSEV, N.V.

Tools for ultrasonic machining. Mashinostroitel no.12:16
(MIRA 18:2)

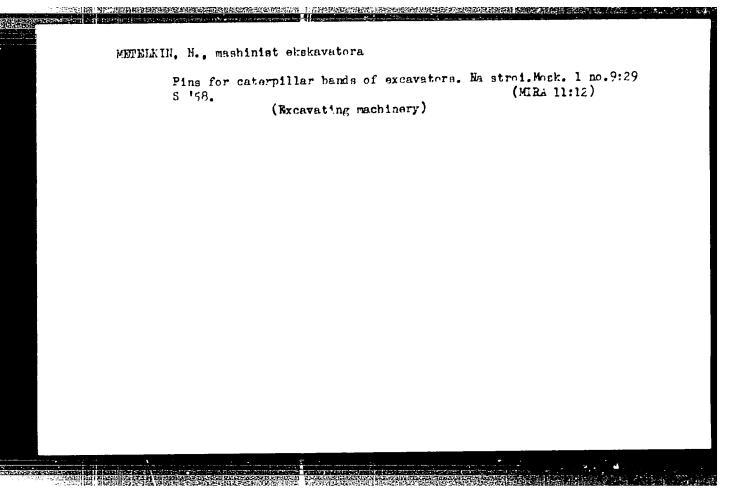
D '64.

BARANOV, Yu.B.; BARANOVA, Ye.N.; BOBHOVSKIY, V.I.; GRISHCHENKO, G.I.;
GONCHAR, G.V.; DCLBISH, V.S.; KALINOVSKIY V.S.; KARAKOTSKIY, Ye.D.,
KULICHKOV, G.M.; KAGANOVSKAYA, S.M.; LESTEV, A.V.; CTILKIB, L.I.;
TIKHDHRAVOV, V.M. [deceased]; DCLBISH, V.S., spetsred.; KUZ'MINA,
V.S., red.; KISINA, Ye.I., tekhn.red.

[Fishing equipment used in Far Bastern waters] Orudita rybolovstva
Dal'nevostochnogo Basseima. Moskva, Pishchepromizdat, 1958. 214 p.

(MIRA 11:12)

(Soviet Far Bast--Fishing--Equipment and supplies)



METELKIN, N.A.

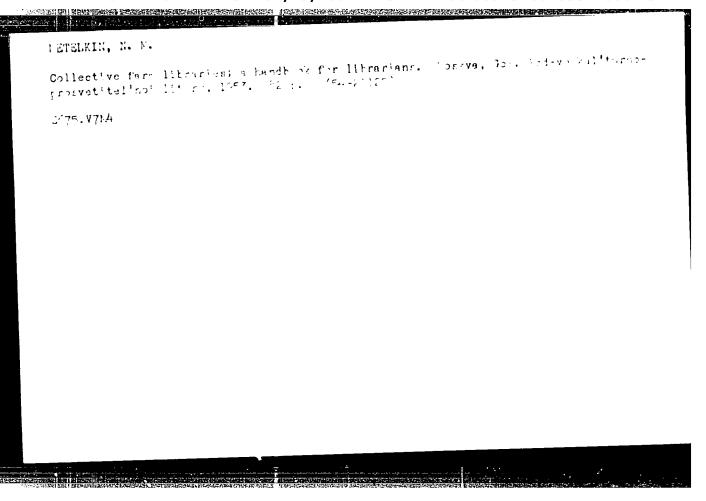
Machine for making dividers for bottle cases. Masl.-zhir. prom. 26 no.1:28-29 Ja_ '60. (MIRA 13:4)

1. Sverdlovskiy shirovoy kombinat.
(0ils and fats) (Box making)

METEIKIN, N. M.

Propaganda sel'skokhoziaistvennoi literatury v sel'skoi biblioteke Fopularizing agricultural reading matter in the village library. Moskva, 1953. 40 p. (Gos. ordena Lenina b-ka SSSR im. V. I. Lenina. Nauch.-metod. kabinet bibliotekovedeniia. V pomoshch' sel'skomu bibliotekariu).

SO: Monthly List of Russian Accessions, Vol. 7, No. 3, June 1954.



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tekinicheskiy redektor

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1957. 162 p.

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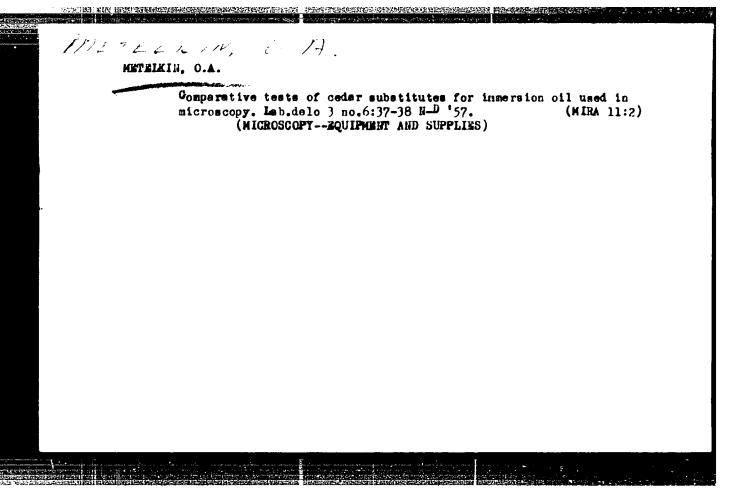
(Hibrarieu, sar

METELKIN, A., prof. (Monkva); METELKIN, O. (Moskva)

Reviews and discussions. Isv. AN Kasakh. SSR. Ser. biol.

(MIRA 18:12)

nauk 3 no.6:103 N-D '65. (MIRA 18:12)



MALYSHEV, A.; KLYUKANOV, G.; METELKIN. S. agronom-planovik

A wage system approved by practice. Sots. true 7 no.8:107-112 Ag '62. (MIRA 15:10)

1. Direktor sowkhoza "Komintern", Gor'kovskaya oblast' (for Malyshev). 2. Glavnyy agronom sovkhoza "Komintern", Gor'kovskaya obl. (for Klyukanov).

(Gorkiy Province-Agricultural wages)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033720002-3"

METELKIN, S. T.

"Calculation of Frame Structures in the Elastic Stage of Work and in the Stage of Plastic Deformations by the Method of Orthogonal Porces, Complexly Conjugated with the Deformation." Sub 17 Apr 51, Central Sci Fes Inst of Industrial Structures (TsNIPS)

Dissertations presented for science and engineering degrees in Moscow during 1951.

SC: Sum. No. 490, 9 May 55

SOV/124-57-9-10965

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 9, p 157 (USSR)

AUTHOR: Metelkin, S. P.

Influence-line Plotting for Multiple-support Beams on an Elastic Footing TITLE:

(Postroyeniye liniy vliyaniya dlya mnogoopornykh balok na uprugom

SESSEE SESSEE

osnovanii)

Sb. nauch. rabot. Vyssh. shkoly promysl. kooperatsii, 1957, Nr 2, PERIODICAL:

pp 61-79

ABSTRACT: Bibliographic entry

Card 1/1

HER CANADA CONTROL OF THE CONTROL OF

METELKIN, I.V.; POPOV, V.Ye.; NIKOL'SKIY, V.I.; METELKIN, V.V.; MUKASEYEV, A.A. Ultrasenic vibration as a means of mechanical machining of various materials. Stan. i instr. 27 no.2:16-19 F '56. (MIRA 9:7) (Ultrasemic waves--Industrial applications)

CIA-RDP86-00513R001033720002-3"

APPROVED FOR RELEASE: 07/19/2001

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117-58-5-17/24

Metelkin, V.V., Engineer and Metelkin I.V., Candidate of AUTHORS:

Technical Sciences

Instrument for Ultrasonic Cutting (Instrument dlya ul'tra-TITLE:

zvukovoy obrabotki)

Mashinostroitel', 1958, Nr 5, pp 35-38 (USSR) PERIODICAL:

In ultrasonic cutting, the material is destroyed by means ABSTRACT: of an abrasive powder which is in a state of suspension in

the liquid. The passage of ultrasound through the liquid produces cavities or bubbles which at the moment of bursting bring about a sharp sudden knock. After dwelling on the theory of the ultrasonic wave effect, the article deals with the mathematical calculation of the instrument and the speed transformer. Figure 2 shows a type of instrument used for ultrasonic cutting. The different materials from which it can be made are mentioned. One end of the instrument is threaded for fixing to the transformer; this end must be

very carefully machined to obtain a perfectly plane surface of contact. The advantage of the ultrasonic method lies in

the great simplicity of the instruments. During the process Card 1/3

CIA-RDP86-00513R001033720002-3"

APPROVED FOR RELEASE: 07/19/2001

Instrument for Ultrasonic Cutting

117-58-5-17/24

of cutting, the working part of the instrument is subjected to wear (Figure 3). Wear on the end of the instrument is much faster than on the circumference. Wear is also irregular; the greatest amount of wear takes place where the metal is thinnest. The table on page 37 shows the wear on a cylindrically shaped instrument with an outer diameter of 6 mm and an inner diameter of 4 mm. The duration of work is the same in all cases, frequency = 18.7 k-cycles, amplitude = 0.1 mm, abrasive material boron carbide 230. The readings given refer to different materials processed with instruments of different kinds of metal. The most wear-resistant metal is steel EYaIT. Experience proved that instruments hardened by thermal treatment are less wear-resistant than unhardened ones. Ultrasonic work is dore with one-piece or two-piece instruments. The twopiece instruments are more economical but the connection between the two parts must be soldered. In certain cases though soldering will not suffice; the connection must be pressed, prior to being soldered. For obtaining accurate openings, the instrument chosen should be a one-piece instrument, part of the

Card 2/3

Instrument for Ultrasonic Cutting

117-58-5-17/24

speed transformer. There are 5 figures and one table.

AVAILABLE: Library of Congress

Card 3/3 1. Machining-Ultrasonic methods 2. Mathematical analysis

THE STATE OF THE S

METRIKIN, V.V., inshe; METRIKIN, I.V., kand.tekhn.nauk

Physical bases for ultrasonic machining. Mashinostroitel' no.10:9-10

(MIRA 11:10)

0 '58.

(Ultrasonic waves--Industrial applications)

MILILLKIN, UN

25(1)

PHASE I BOOK EXPLOITATION

SOV/1932

Moscow. Aviatsionnyy tekhnologicheskiy institut

- Issledovaniya v oblasti tekhnologii aviadvigateley; [sbornik] (Studies in the Field of Technology of Aircraft Engines; Collection of Articles) Moscow, Oborongiz, 1959. 100 p. (Series: Its: Trudy,
- Ed. (Title page): A.S. Ivanov, Professor; Ed. (Inside book): S.I. Bumshteyn, Engineer; Ed. of Publishing House: N.A. Gortsuyeva; Tech. Ed.: V.I. Oreshkina; Managing Ed.: A.S. Zaymovskaya, Engineer. Purpose:
- This book is intended for engineering and technical workers, scientific research institutes, for teachers, aspirants, and students of higher educational institutions specializing in the technology of machine building. COVERAGE:
- This is a collection of articles generalizing the results of the research work done by the Department of Aircraft Engine Card 1/6

Studies in the Field of Technology (Cont.)

sov/1932

Technology of MATI (Moscow Aviation Technological Institute). The articles deal with various branches of technology and economics of the aviation industry. Some of the articles may be of interest to workers outside the aviation industry. The collection describes workers of investigations of the following problems: use of centralizing devices in the machining parts on lathes, analysis and design of cutting tools using ultrasonic vibrations, improvement of the quality of dynamic balancing high-velocity rotors, gluing metals, determination of the work required to produce attachments, and the engineering utility of constructions.

TABLE OF CONTENTS:

Foreword

3

Bolotin, Kh.L., Candidate of Technical Sciences, Docent. Investigation of a New Kind of Workholders for High-speed Machining

This article describes investigations of the use of centrifugal force for holding parts during machining operations. Experimental

Card 2/6

Studies in the Field of Technology (Cont.)

sov/1932

字等的方式,但是我们的对抗。我们是这种的自己的对于自己的自己的对抗,但是我们的自己的自己的。

and theoretical investigations were carried out at Moskovskiy tormoznoy zavod (Noscow Brake Plant) and MATI (Moscow Aviation Technology Institute). Mention is made of an instrument with a warm gear drive designed and manufactured by TIZPRIBOR (Heatwarm gear drive designed and manufactured by TIZPRIBOR (Heatwarm gear drive designed and moscow). A dynamometer produced by TSNIITMASh (Central Scientific Research Institute of Heavy Machinery and Metalworking) is also mentioned. There are no references.

Metelkin, V.V., and I.V. Metelkin. Design and Calculation of
an Ultrasonic Machine Tool
This article describes the shape of the tool, its holding
devices, and tool wear. Tools for ultrasonic machining may be
made of structural steel 05, 20, 30, 40, 45; of high carbon
steels U7, U8, U10; of the alloy D 16T; or of brassor Monel
metal. There are 3 references: 1 Soviet, 1 English, and 1 French.

Chistyakov, A.A., Candidate of Technical Sciences. On methods of Determining Allowances in Balancing Rotors of Turbojet Engines 34

Practical recommendations for reducing vibrations of high r.p.m.

Card 3/6

Studies in the Field of Technology (Cont.)

。 (1916年),上海时间的各种政策的基础的基础的基础的对象,就是对对对的企业,但是是对于自己的。

SOV/1932

rotors are given. The investigation was carried on at MATI. First attempts to solve this problem for rotor ventilators "Sirokko" were made by B.V. Shitikov. V.A. Samdylov studied the problem of vibrations of turbine units of electric power stations and rotors. A.P. Dinerman investigated static and dynamic balancing of steam turbine rotors. N.V. Kolesnik studied static and dynamic balancing of machine parts. To determine the allowable unbalance of rotors the theory of Gerts-Belyayev and the works of G.A. Ignat'yev are recommended. The following instruments are referred to: transmitters EDS, 2UG1-48, MV-21, MG-21; regenerator of sonic frequency ZG-2A; Ferromagnetic electrotachometer type FT-49; electrotachometer type TE-20; oscillograph MPO-2. There are 10 references, all

Chistyakov, A. A., Candidate of Technical Sciences. Method of Checking Bearings of Rotors of Turbojet Engines for Admissible Vibrations 54 Recommendations are given for increasing the time limits of rotor-bearing service in turbojet engines. The theoretical investigations were made at MATI. The following equipment is mentioned: Gishol't, Shenk, and Lozengauzen balancing machines; oscillograph MPO-2. Anti-friction brass BrOS10-10 is also card 4/6

Studies in the Field of Technology (Cont.) SOV/1932

Kasatikov, T.P., Candidate of Technical Sciences and G.V. Filatov

Kasatikov, T.P., Candidate of Technical Sciences, and G.V. Filatov, Engineer. Using Epoxide Glue in the Construction of Tooling Equipment

The article describes the advantages of epoxide gluing over other means of joining, such as riveting, bolting, welding, and gluing with other glues. The following products are mentioned: glues BF, PU-2, FU-3; firm coating NIAT-1; tars ED-3, ED-6, E40. There are no references.

Kasatikov, I.P., Candidate of Technical Sciences. Preliminary Evaluation of Work Requirements in the Production of Machine Tool Attachments

The author presents several methods for preliminary determination of requirements for machine tool preparation. The methods are as follows: (1) total number of codes, (2) volume of design work, (3) standard items, (4) qualitative and quantitative characteristics of typical parts, and (5) design factors (coefficients).

Gevorkyan, A.M., Candidate of Technical Sciences. Increasing Work Output and Decreasing Production Costs in Mass Production Plants 83 Card 5/6

Studies in the Field of Technology (Cont.)

sov/1932

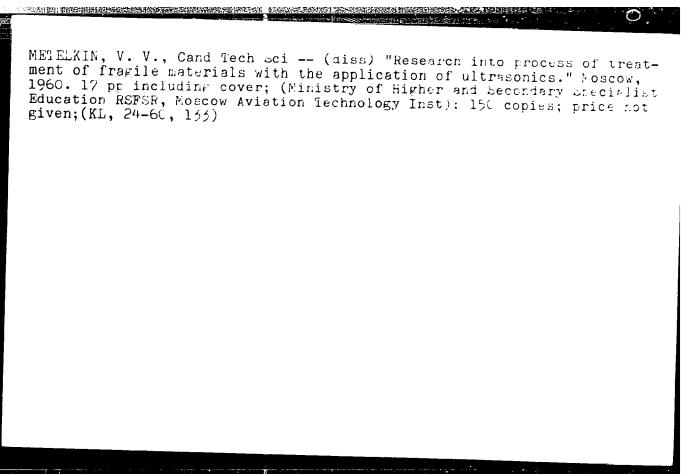
The article analyzes basic conditions for increasing productivity and reducing costs in mechanical assembly shops of plants as related to modern technology. It is stated that the works of Professors E.A. Satel', B.S. Balakshin, N.A. Borodachev, and M.G. Aref'yev laid the foundations for a systematic study of engineering utility of design. Professor B.L. Boguslavskiy gives a classification of machine tools according to their degree of automation. Professor S.I. Artobolevskiy classifies machine tools according to productivity. There are no references.

AVAILABLE: Library of Congress

Card 6/6

TS/jb 6/30/59

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033720002-3"



83334

S/117/60/000/008/016/020 A002/A001

/./// O AUTHOR:

Metelkin, V.V.

PRODUCTION OF THE PRODUCTION OF THE PROPERTY O

TITLE:

Ultrasound Machining of Deep Apertures

PERIODICAL:

Mashinostroitel', 1960, No. 8, pp. 28-29

TEXT: The author discusses methods of improving the efficiency of cutting deep apertures in brittle materials by ultrasound. At unchanged cutting conditions (frequency, amplitude, pressure, etc), the cutting speed depends on the depth of cutting tool penetration into the material to be processed. The efficiency decreases considerably at cutting depths exceeding 2-5 mm, because increasing friction between the tool and the walls of the hole cause an oscillation amplitude reduction. The removal of loose particles becomes more difficult with increasing depth. Instead of a cylindrical cutting tool, the author recommends a cutting tool with a hollow end, whose external and internal surfaces are tapered in opposite directions (Figure 1). Comparative tests performed with a cylindrical and a tapered tool (Oscillation amplitude 90 microns; frequency 18.3 kc; No. 180 boron carbide used as abrasive) showed that 150 seconds were needed for cutting a hole of 6 mm diameter through a glass plate of 8 mm thickness with a cylindrical

Card 1/3

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Ultrasound Machining of Deep Apertures

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tool end. The same operation was performed within 90 seconds with a tapered tool end. Rotating of the work piece (180 rpm) reduced the cutting time to 60 seconds with a tapered tool end. To improve the feed of abrasive to the work area, the author designed and tested a cutting tool in which the abrasive suspension is fed through a duct in the stem (Figure 3). The internal cavity of the tool end is arranged eccentrically in respect to the stem axis. This arrangement results in a core whose diameter is 0.3-0.4 mm smaller than the internal cavity of the tool end, and consequently, the abrasive feed is not impeded. The tool can be manufactured of \$10 (U10), \$8 (U8) or 30 XFCA (30KhGSA) steel. The design of the rotary work table is shown (Figure 4). The author recommends performing the cutting operation in several passes of 2-3 mm, especially in case the work piece cannot be rotated. He describes briefly the technology of cutting a rectangular aperture of 7.5 x 14.5 mm in a 60 mm thick glass plate using a cutting tool with a rectangular end of 7.5 x 10 mm (oscillation amplitude 100 microns; No. 120 boron carbide). Initially, a rectangle of 7.5 x 10 mm was cut to a depth of 2.5 mm and then the tool was displaced by 4.5 mm for the next pass. The total time required for the rough cutting (including displacement operations) lasted 22 minutes. The finishing pass was performed with a 8 x 15 mm tool end (oscillation amplitude 75 microns; No. 280 abrasive used). The abrasive was

Card 2/3

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Ultrasound Machining of Deep Apertures

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fed to the tool end from the other side of the hole. The finishing pass was completed within 6 minutes and produced a 7th class surface. The author mentions briefly the cutting of single crystals of quartz, germanium and silicon with a boron carbide tip attached to a special ultrasound vibrator (Figure 5). There

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Card 3/3

VOLKOV, A.T.; NIKITYUK, I.P.; METELKIN, V.V.; MAMONTOVA, O.K., red.;
MOSKALENKO, A.V., red.; OVECHKINA, L.S., red.; FILATOVA, G.M.,
tekhn. red.

[Mechanization of soybean cultivation and harvesting operations]
Mekhanizatsiia vozdelyvaniia i uborki soi. Elagoveshchenek,
Amirekoe knizhnoe izd-vo, 1962. 143 p. (MIRA 15:5)

(Soybean) (Agricultural machinery)

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3/117/62/000/002/003/003 A004/A101

1.1100

Metelkin, V. V., Metelkin, I. V AUTHORS:

TITLE:

Surface finish and accuracy of holes in ultrasonic machining

PERIODICAL: Mashinostroitel', no. 2, 1962, 29 - 32

The authors point out that, although quite a number of Soviet and foreign publications have been devoted to the investigation of the machinatility of hard materials, e.g. glass, ceramics, mineral-ceramics, ceramet compounds semi-conductors, etc., the problems of accuracy and, particularly, surface finish have not yet been elucidated sufficiently in literature. Therefore, they present in their article a number of test results concerning the surface finish and accuracy attained with ultrasonic machining of various materials. To determine the effect of the tool oscillation amplitude and the grain size of the abrasive, glass was machined with a tool having a rectangular shape and being 5×20 mm in size. Oscillation amplitude A was changed in the range of 50 - 100 / The surface finish was measured by a Kiselev-type profilometer. The investigation results are presented in a table. According to the authors, the experimental data confirm the assumption that the surface finish depends both on the oscillation

Card (1/3

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Surface finish and ...

S/117/62/000/002/003/003 A004/A101

amplitude and on the grain size of the abrasive. A better surface finish is ortained with small-size grains at low oscillation amplitudes of the tool. On the other hand, the ultrasonic machining process is more efficient if abrasives of a larger grain size are used at increased oscillation amplitudes. Therefore, +5 combine the required surface finish with efficient machining conditions it is recommended to carry out ultrasonic machining in two operations, i.e. a rough and a finish operation. The greater part of the material is removed at maximum oscillation amplitudes of the tool with abrasives of a large grain size, while the finish operation is carried out with fine-grained abrasives at low oscillation amplitudes. To determine the effect of the strength characteristics of the material being machined on the microgeometry of the surface, the authors machined glass, silicon, LLM332 (TsM332) mineral-ceramic and the T30K4 sintered carbide For all materials the oscillation amplitude was 100 μ , while the grain size of the abrasive varied in the range of 100 to 320 mesn. The test results are presented in a graph and a number of tables. It was found that the higher the strength and plasticity of the material being machined, the better will be the surface finish. As to the accuracy of ultrasonic machining, the authors point out that two groups of factors play an important role. The first group includes factors like accuracy of equipment and tools, accuracy of fixtures, accuracy of

Card 2/3

34049

Surface finish and.

relative position of tool and component being machined, etc. The second group includes factors which are characteristic only for this machining method, e.g. grain size of the abrasive, wear of the tool cutting part and depth of hole being cut. In glass specimens of 4 mm thickness, holes 6, 8, and 10 mm in diameter were cut. For all cases the oscillation amplitude amounted to 80 μ . The authors emphasize that in ultrasonic machining the dimension of the hole being but is always larger than the tool dimension. Moreover, if a cylindrical tool is used, the hole produced will always have a tapered shape. It is characteristical that the magnitude of conicity and the magnitude of lateral clearance does not depend on the hole diameter. To obtain an aperture of the given dimension, it is necessary to reduce the tool diameter by a factor of 2.2 of the maximum size of abresive of the given mesh number. To reduce the conicity, it is recommended to use a tool which has a reversed taper. The authors recommend, for obtaining an aperture with 0.01 - 0.02 mm tolerance, to carry out machining in two operations. The use of α large abrasive and maximum oscillation amplitudes increases the machining efficiency during the first operation. Finish machining should be carried out with a tool of a reversed taper and no. 240, 280 and 320 mesh abrasive. The authors give some additional recommendations on the machining of other materials, e.g. high-strength steels, titanium alloys, etc. There are 5 figures and 5 tables.

Card 3/3

5/117/62/000/008/004/005 1007/1207

AUTHORS: Metelkin, I.V., Metelkin, V.V., and Pleshivtsev, N.V.

TITLE: Machining output in ultrasonic cutting

PERIODICAL: Mashinostroitel', no. 8, 1962, 33-34

TEXT: A study is presented of the factors affecting machining output in ultrasonic cutting, and experimental results are reported. Graphs showing the dependence of machining output on the abrasive-grain size, the ultrasonic-oscillation and the amplitude, were plotted on the basis of these results. Increasing the abrasive grain-size was found to augment considerably the machining output. The graphs for ultrasonic cutting, although plotted only for the cutting of hard alloys and glass, may also be used for other materials. Appropriate conversion coefficients (given in this paper) should be used. There are 3 figures and 1 table.

Card 1/1

METELKIN, V.V.; METELKIN, I.V.; PLESHIVTSEV, N.V.

Tools for ultrasonic machining. Mashinostroitel' no.12:16
(MIRA 18:2)

D'64.

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METELKINA, M. P.

Dissertation defended in the Geological Institute for the academic degree of Candidate of Geologo-Mineralogical Sciences:

"Genetic Series of Diamond Placer Deposits Spatially Associated with Native Sources (Mir River) of Kimberlite Pipe."

Vestnik Akad Nauk No. 4, 1963, pp. 119-145

MetelKina, let).

USSR/Chemical Technology - Chemical Products and Their

I-29

Application - Leather. Fur. Gelatin. Tanning Agents.

Technical Proteins.

Abs Jour : Referat Zhur - Khimiya, No 9, 1957, 33127

Author : Goland, N.I., Metelkina, Ye.M.
Inst :

Title : Dyeing of Fur with Vat Dyes.

Orig Pub : Legkaya prom-st', 1956, No 5, 30-31

Abstract : On dyeing of fur with oxidation dyes it was not possible

to produce fast grey shades. Experiments are described on the use for this purpose of vat dyes. Dyeing is carried out in a conventional drum which is filled almost to capacity. Two formulas have been worked out for dyeing sheepskins grey with thioindigo black using color modifying adjucts: in one instance vat golden-yellow ZhKh and bat brilliant green Zh, and in the other -- thioindigo red-brown Zh; with sodium alkyl sulfate as

Card 1/2

USSR/Chemical Technology - Chemical Products and Their

I-29

Application - Leather. Fur. Gelatin. Tanning Agents.

Technical Proteins.

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 33127

dispersing agent. Dyeing according to the second formula is carried out directly. Samples dyed with the vat dyes are characterized by great fastness to light and weathering. Their physico-mechanical indices meet the specifications of the standard. Procedures have also been wor-

ked out for dyeing grey, lambskin and goat fur.

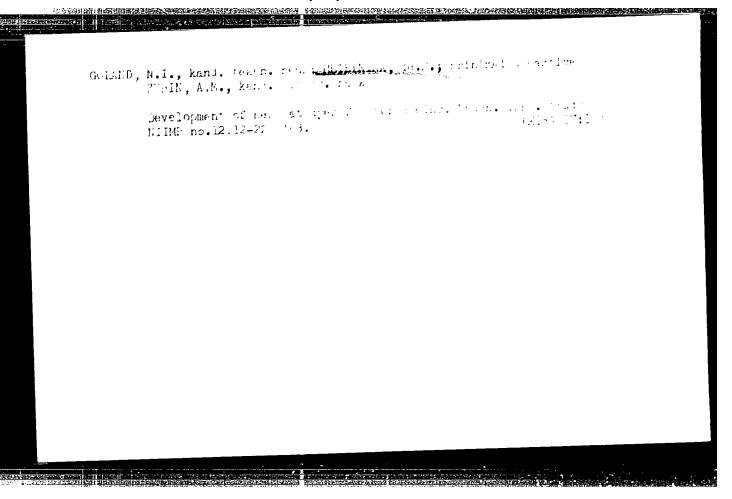
Card 2/2

GOLAND, N.I., kand.tekhn.nauk; METRIKINA, Ye.M., tekhnolog; DROZHNIKOVA,
L.Ya., mladshiy nauchnyy sotrudnik

Control of dye bathes in fur dyeing with vat dyes. Nauch.issl.trudy
(MIRA 16:5)

NIIMP no.11:13-28 '62.

(Fur-Dressing and dyeing)



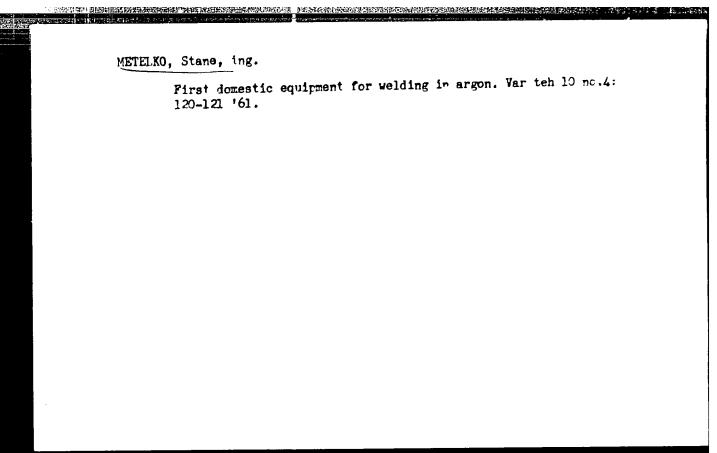
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METELKO, S.

Report on the Second International Conference for Metalization, Birmingham, England, from September 29, to October 3, 1958. p.82

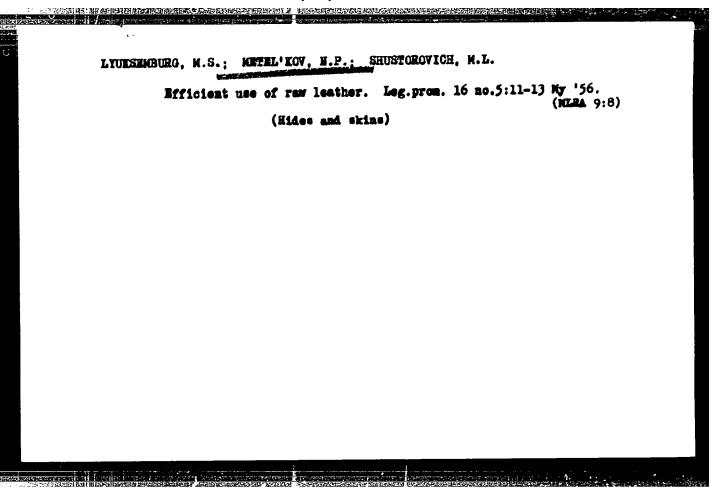
VARILNA TEHNIKA. (Drustvo za varilno tehniko IRS in Zavod za varjenje IRS Ljubljana, Yugoslavia. Vol.7, no.3/4, 1958

Monthly List of East European Accessions Index, (EEAI) LC, Vol. 8, no 11 Nov. 1959 Uncl.



APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033720002-3"

BERGISHTSAN, F.F., "I'CG: DC", J.T., I'MELIECT, D.F.	
Leather	
Classification of hard leather. Leg. prom., No. 3, 1952	
Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified	



SENYANINOVA-KORCHAGINA, M.V.; METEL!KOVA, T.A.

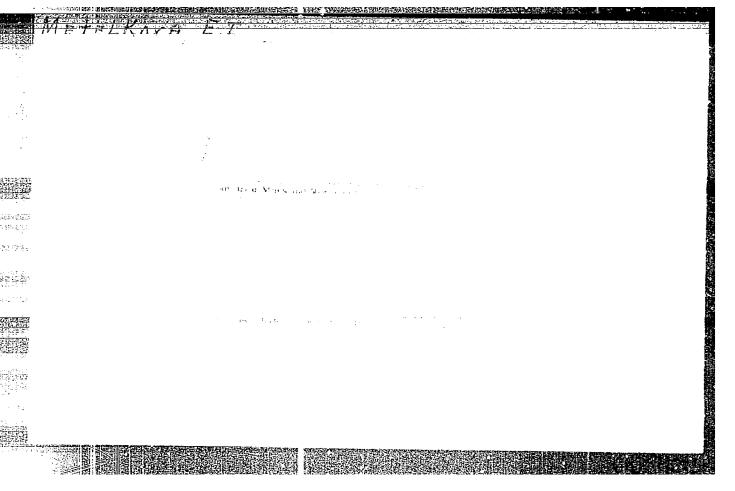
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(MIRA 15:10)

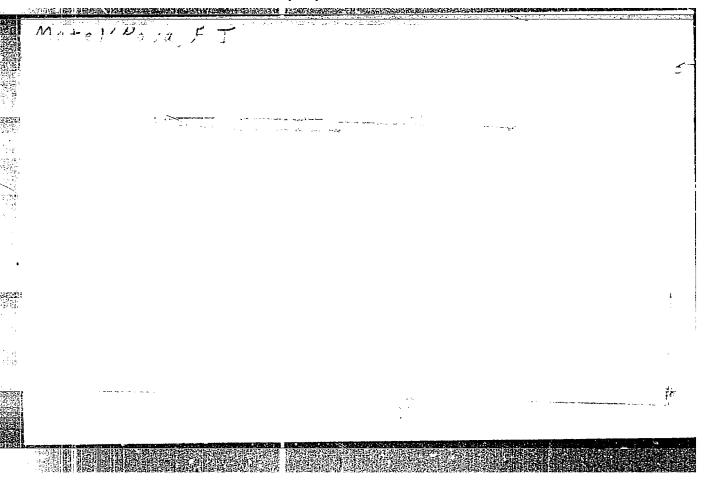
(Weeds) (Peat)

ORLOV, I.M., dotsent; VIL'NINA, M.A.; METEL'KOVA, T.V.

Quality of the wool from fine-wooled sheep bred in the Northern Caucasus and Kalmyk A.S.S.R. Tekst. prom. 24 no.2:18-19 F '64. (MIRA 17:3)

l. Kafedra tovarovedeniya i tekhnologii zhivotnogo syr'ya Moskovskoy veterinarnoy akademii (for Orlov). 2. Glavnyy inzh. Nevinnomysskoy fabriki pervichnoy obrabotki shersti (for Vil'nina). 3. Nachal'nik nauchno-issledovatel'skoy laboratorii Nevinnomysskoy fabriki pervichnoy obrabotki shersti (for Metel'kova).





4.3							
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		oxidation, and sales	m of 1,4'-diamino	Zasosov, E. I. S.S.R. 107/263, ned by acylation, diphenyl sulfide le, while the ext. M. Hogen	4 E 4 A 3 d		

ZASOSOV. V.A.; METEL'KOVA, Ye.I.; GAICHENKO, M.I.

New method for producing 4. 44-diaminodiphenylsulphone. Med. prom. 13 no.2:18-20 F 159. (MIRA 12:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiki-farmatsevticheskiy institut imeni S. Ordzhonikidze i Institut farmatkologii i khimioterapii Akademii meditsinskikh nauk SSSR. (SULFONE)

ZASOSOV, V.A.; METEL'KOVA, Ye.I.; OHOPRIYENKO, V.S.

Improvement in the method for producing vanillin. Med.prom.
13 no.3:22-24 Mr '59. (MIRA 12:5)

1. Veesoyusnyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordshonikidse.

(VANILLIE)

ZAEGSOV, V.A. METEL'KOVA, Ye.I.; ONOPRIYENKO, V.S.

Non-pyroforic nickel catalyst in the dehydration reaction of 3,4-dihydroisoquinoline and its derivatives. Med.prom. 15 no.3:35-38 Mr '61.

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(QUINOLINE) (CATALYSTS, NICKEL)

ZASOSOV, V.A.; METEL'KOVA, Ye.I.; YCLZHINA, O.N.; SHAGALOV, L.B.; VLASOV, A.S.

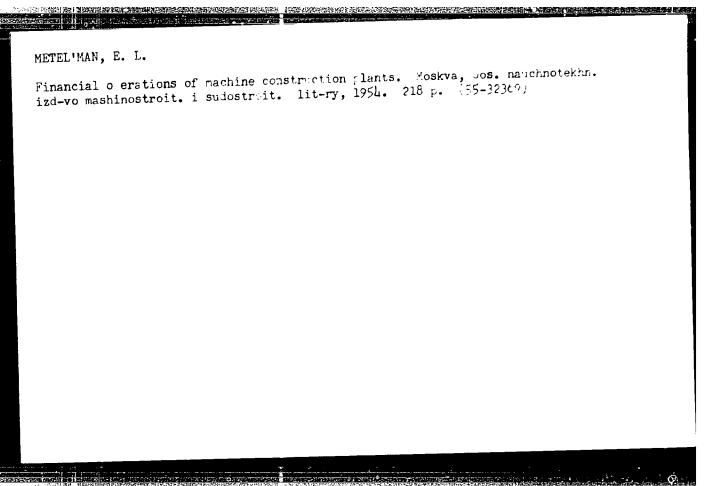
New method of producing normulfazole. Med. prom. 17 no.9:15-22 (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel skiy khimikc-farmatsevticheskiy institut imeni Sergo Ordzhonikidze.

HOSOV, S.D.; BUDKEVICH, V.B.; LEVINA, S.S.; MRTEL'KOVA, Ye.M.; PESIKOVA, M.I.;
PILICHEVA, Z.V.

Reducing hospitalization time in scarlet fever. Zhur.mikrobiol.epid.
1 inmun. no.3:19-23 Mr '54.

1. Is kafedry detskikh infektsionnykh bolesney (saveduyushchiy - professor S.D.Bosov) Ivanovskogo meditsinskogo instituta. (Scarlet fever)



BURYAKOV, V.S., tehnnik; FETRUKOVICH, V.D., inzh.; KIRNOV, Ye.S., inzh.;

ETEL*BIKOV, V.I., inzh.; KUDRYASHOV, S.A., inzh.

**Concerning V.V.Vasil'ev's article "Should equipment be grounded or reliably insulated?". Energetik 10 no.12:15-17

D '62.

(Electric lines—Overhead)

USSR/Human and Animal Physiology - (Normal and Pathological). T-3Blood. General Problems.

: Ref Zhur - Biol., No 16, 1958, 74600 Abs Jour

: Bishinkevich, S.I., Metel'nikova, L.M. Author

Academy of Ped. Sciences, RSFSR. Inst

: Influence of Cycle Racing on the Change of Blood Viscosity Title

in Adolescents 16-18 years old.

: Dokl. Akad. ped. nauk RSFSR, 1957, No 2, 145-149 Orig Pub

In 11 boys and 12 girls 16-18 years old, the blood viscosi-Abstract

ty (BV) after competition in a cycle race usually increased with the length of distance of the race. After a race of 50 km, the BV increased no less than 22%, and in 3 cases increased by 2 times. In differents person, a decrease of BV was observed immediately after the training; its increse followed an absence of changes. Daily sleep after

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- 17 -

实生。但是对他并被通过的是特殊的的,但是是他们的人,但是他们的人,也不是是一个人的人,也不是是一个人的人,也是是一个人的人,也是是一个人的人,也是一个人的人,也

FILINSKI, W., MEYELSKA, H.

Observation on the administration of vitamin K in hemophilia. Polski tygod. lek. 5:12, 20 Har. 50. p. 448-50

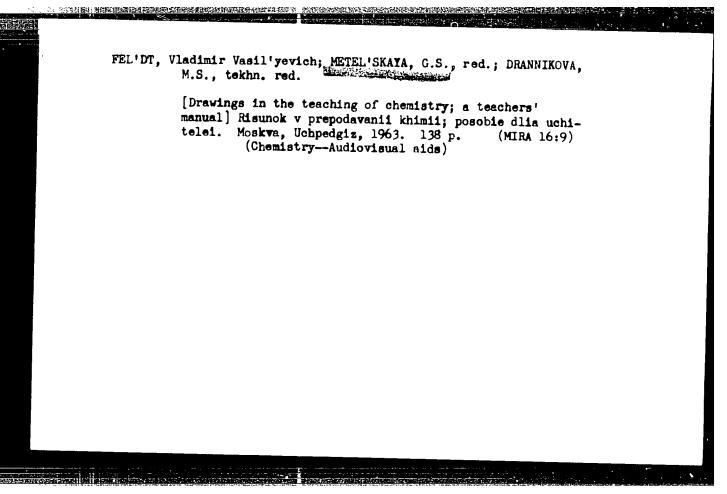
1. Of the Department of Internal Diseases of the Hospital of Infant Jesus in Tarsaw.

CLIL 19, 5, Nov., 1950

GLORIOZOV, Pavel Aleksandrovich; METEL'SKAYA, G.S., red.; KORNEYEV, V.I., tekhn. red.

[Forming skills and habits in the teaching of chemistry]
Formirovanie umenii i navykov v p. vtsesse obucheniia khimii.
Izd.2. Moskva, Uchpedgiz, 1963. 69 p. (MIRA 16:10)

(Chemistry—Study and traching)



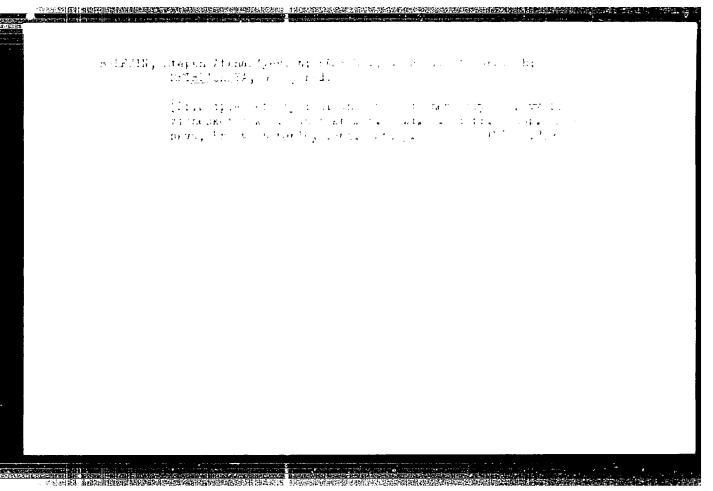
BERDOLOS : Dersey deradirevich; VIASOV, Lev Grigortyevich;
DES STANCE, Analle, icktor khim, nauk, prof., retoendent;
RLT CENTRY, N.G., kann. khim, nauk, prof., retoendent;
RETFLOKAYA, h.G., red.

[Application of radiolastopes; a textbook for teachers]
| Frimenenie radiolaktivnykn iz.topov; probale mia uchitelei. M.skva, Progvenchenie, Prof. 110 ;

(MLA , Apr)

BALE III., tepan Transcriptsion; Min. II. K.Y.L., J.J., and.

(Laboratory work in physical and relationer stry for students of chemical and ideogram. Saluties of pedar gical institutes) Praktikus, of Princepost i kondition for a bind which is a tementor krimin or ideogram in the formal tetror polagorisms which is instituted to a lagger of the key, I receive the pedagorisms and a lagger of the key, I receive the pedagorisms and a lagger of the key, I receive the pedagorisms and a lagger of the key, I receive the key and a lagger of the key, I receive the key and a lagger of the key and a la



PARFENOV, Grigoriy Stepanovich; BALEZINA, S.A., proc., red.;
METEL'SKAYA, G.S., red.

[Examples and problems in physical chemistry] 3bornik
primerov i zadach po fizicheskoi khimii. Moskva, Procveshchenie, 1965. 210 p.

(MIRA 18:3)

KHODAKOV, Yuriy Vladimirovich, zasl. deyatel' nauki RSFSR; METEL'SKAYA, G.S., red.

[General and inorganic chemistry; a textbook for teachers]
Obshchaia i neorganicheskaia khimiia; posobie dlia uchitelei. Izd.3., perer. Moskva, Prosveshchenie, 1965. 710 p.
(MIRA 18:6)

SKLYAROVA, A.P.; METEL'SKAYA, G.S., uchitel'nitsa

Preparing students for active assimilation of the study material.
Biol. v shkole no.1:43-47 Ja-F '59. (MIRA 12:2)

1. Vologodskiy pedagogicheskiy institut (for Sklyarova). 2. Shkola No.713, Moskva (Metel'skaya)

(Biology-Study and teaching)

KRIKOV, V..I.; DOLGIKH, V.K.; METEL SKAYA, L.I.

Rationalization of packing work. Apt. delo 14 no.1:57-60
Ja-F *65. (MIRA 18:10)

1. Pyatigorskiy farmatsevticheskiy institut.

KARGIN, V.A.; KABAHOV, V.A.; METEL'SKAYA, T.K.

Polymerization on a potassium - carbon black catalyst. Fysokom. soed. 2 no.1:162-165 Ja '60. (MIRA 13:5)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. Khimicheskiy fakul'tet.

(Polymerization) (Potassium) (Carbon black)

\$/190/61/003/009/016/016 B124/B101

Sogolova, T. I., Metel'skaya, T. K. AUTHORS:

Effect of anisodiametric-particle fillers on the properties TITLE:

of polymers

Vysokomolekulyarnyye soyedineniya, v. 3, no. 9, 1961, PERIODICAL:

1428 - 1429

TEXT: The effect of the shape and dimensions of the filler particle on the properties of polymers was studied on a system consisting of polyisobutylene (molecular weight 670,000) and "lavsan" (polyethylene terephthalate) fiber, diameter 20 m, and 3 - 10 mm long. The dimensional stability of the lavsan fiber remains unchanged even at temperatures above the vitrification point and the flow point of polyisobutylene, and is, therefore, a convenient filler material. It was shown by thermomechanical studies that the flow point of the system, even with a relatively low fiber content of 5 - 10%, is raised by the introduction of the fibers. When the fiber length had been raised from 3 to 10 mm and the fiber concentration to 30 - 40%, the flow point of the system increased. The

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Effect of anisodiametric-particle...

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observed increase of the flow point is due to the rise in viscosity effected by the introduction of anisodiametric particles. This phenomenon is analogous to the increase in viscosity of liquid colloidal systems with an increase in length of the suspended particles, with high-molecular, amorphous polyisobutylene being the dispersion medium and crystalline lavsan fibers the dispersed solid particles in this case. It was established by tensile tests that samples with a high content of long fibers (i. e., with higher viscosity) show strength properties by far superior to the initial polyisobutylene (the strength of polyisobutylene in the systems investigated increases to the 30-fold at most). By an appropriate choice of the particle length of the filler, as well as of its concentration, systems showing high strength and sufficient flow for manufacturing purposes can be obtained. Abstracter's note: Complete translation. There are 3 references: 2 Soviet and 1 non-Soviet. SUBMITTED:

July 15, 1961

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CIA-RDP86-00513R001033720002-3 "APPROVED FOR RELEASE: 07/19/2001 大学的对称自由电流。他的**经验的现在分词**是是不够有一种,是存在的时间的经验的一种的现在分词是不是不是不是不是不是不是

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Kargin, V. A., Sogolova, T. I., Metel'skaya, T. K.

AUTHORS:

Effect of fillers with anisodiametric particles on the

TITLE:

properties of polymers. I

Vysokomolekulyarnyye soyedineniya, v. 4, no. 4, 1962, 601-604

TEXT: The effect of the shape of filler particles on the mechanical properties of polymers was studied with polyisobutylene (molecular weight 670 000 and 1 400 000) filled with "Lavsan" fiber (polyethylene tetraphthalate; fiber diameter 20%, length 25-75 u to 10 mm). Tensile tests with films pressed at 80°C showed that strength of the samples and their modulus-50 are already increased at low filler concentration (up to 10%), and that the tensile strength of the samples increases with increasing length of the filler fibers. In compression tests with tablets pressed at 140°C the yield temperature was found to decrease at relatively low filler content (up to 15% by weight) and a fiber length not exceeding 100%. This may be explained by the effect of the filler on the secondary structures existing in amorphous polymers. In the case of longer fibers (3-10 mm), the yield temperature is increased, i. e., the properties of the high-Card 1/2

S/190/62/004/004/017/019 B117/B138

Effect of fillers with anisodiametric ...

polymer "liquid" of polyisobutylene are affected by size and shape of the particles similar to colloids. When introducing anisodiametric particles, a correlation between the increase of yield temperature and strength was ascertained. During solidification of the polymer its molecular weight is of great importance. Solidification is greater with lower molecular weight of the polymer. The strength of the polyisobutylene samples with different molecular weights and an equal weight of filler is, however, equalized when filler concentration is increased. Materials with properties required for further processing may be produced by altering the length of the filler particles and the filler content. There are 1 figure and 2 tables. The English-language reference is: P. Flory, J. Amer. Chem. Soc., 65, 372, 1943.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-chemical Institute imeni L. Ya. Karpov)

SUBMITTED: April 1, 1961

Card 2/2

1. 65086-65 EWT(m)/EWA(d)/EWP(v)/T/EWP(t)/	/EWP(k)/EWP(z)/EWP(b)/EWA(c)	
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ACCESSION NR: AFJO21227 MOW/OD/MA	621.791.75:546.621:625.2	
4	44	
AUTHOR: Mctel skiy, A.N. (Engineer); Poritaki	Ly, M.P. (Engineer); Steblovskiy	B.A.
(Engineer); Vyshnikov, I.Ye. (Engineer); Polys	kov, A.Ye. (Engineer)	•
44	HY ado of ANGE allow 7//	1 1
TITLE: Welding of sliding freightcar roofs ma	مناهب المناسب	
SOURCE: Avtomaticheskaya svarka no. 8, 1965	, 75 D	
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TOPIC TAGS: sliding freightcar roof, freight	car roof, transloading, freight	load-
ing, argon arc spot welding/AMg6 aluminum-mag	nesium alloy	1
ABSTRACT: To facilitate transloading operati	ove and charten their time, the	Altay
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interest trailding has denigned and hill to a b	OXCAT MICH A STIGING LOOK (FIR.	4)
	HE LOOF (LIK' T) COMPERED OF C.	- Passo
the back of nower d	rive in either direction, thus i	making
lungathing the mechanized loading and unloading	of large snipments and bulk in	ergue.
Each half-roof consists of a frame atop a pla	ting of 2 mm thick sheets of Art	go with
aluminum-magnesium alloy. The welding of the the aid of a nonconsumable (tungsten) electro	do in an aroun atmosphere. The	frame
the aid of a nonconsumable (congaten) electro	are the an arean armorement.	_ :
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ACCESSION NR: AP5021227

was assembled and welded in a special positioner equipped with locators and adjustable clamps for aligning the ten trapezoidal arches. The plating sheets were simultaneously welded together and welded to the arches, in the following regime: welding current I_w = 130-200 a; tungsten electrode of 3-5 mm diameter; filler wire of 3-5 mm diameter; Q_{argon} = 8-10 liters/min. In addition, the placing sheets were attached to the arches by means of manual argon-arc spot (diameter 12 mm) welding spaced 150 mm apart. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 02

SUB CODE: 1E, GO

NO REF SOV: 000

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