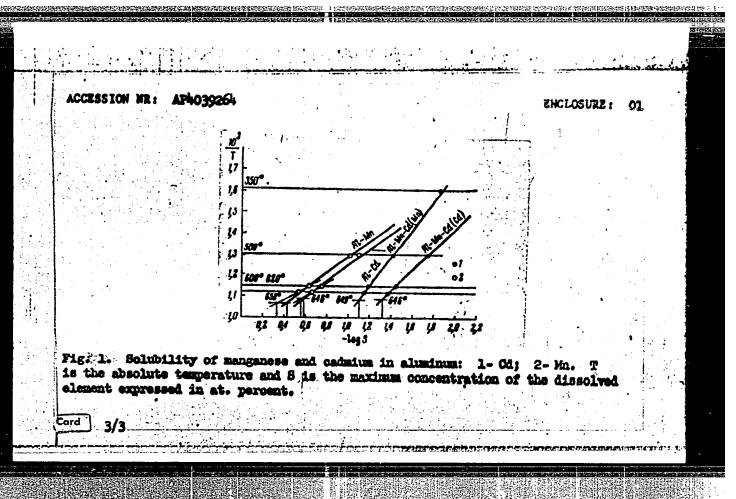
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SOV/24-58-8-16/37

AUTHORS: Drits, H. Ye., Mal'tsev, M. V., Padezhnova, Ye. M. and

Sviderskaya, Z. A. (Moscow)

TITLE: Influence of Thorium on the Heat Resistance of

Magnesium and Some of its Alloys (Vliyaniye toriya na zharoprochnost' magniya i nekotorykh ego splavov)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 8, pp 93-97 (USSR)

ABSTRACT: According to published Western data (Refs.1-3), magnesium alloys with additions of 2 to 3% thorium have a high creep stability in the temperature range 300 to 350°C and satisfactory mechanical and technological properties. The authors of this paper applied the method of investigation of the short duration and the long duration hardness for the binary alloys of magnesium and thorium and for certain ternary alloys containing in addition to thorium, Ce, Mn, Al, Ca and Zn. The results of the hardness measurements of the binary alloys of magnesium and thorium in the as-cast state and after stabilisation at 300°C are entered in Table 1. The hardness values are

entered in Table 2 for the same specimens after quenching Card 1/5 in water at 565°C, at which temperature the specimens were

SOV/24-58-8-16/37

Influence of Thorium on the Heat Resistance of Magnesium and Some of its Alloys

held for sixteen hours; heating of the specimens was effected in quartz glass ampules from which air was evacuated and which were filled with sulphur powder. The influence of thorium on the hardness of the binary Mg-Th alloys at room and elevated temperatures is graphed in Fig.1. The diagram of state of the Mg-Th system, based on the micro-structural and thermal analyses, is reproduced in Fig.2; the diagram is of the eutectic type. Fig.3 shows reproductions of the microstructure of Mg-Th alloys for 3 and 20% Th respectively and magnifications of 315 and 1000 times. The obtained results indicate that Mg-Th alloys have a high microhardness (306 kg/mm²) which approaches in value the micro-hardness of Mg2Ni, MgNi2, etc; the micro-hardness of the eutectic is 118 kg/mm², the micro-hardness of the solid solution is 74 kg/mm². The effect of hardening of these alloys during heat treatment was investigated in detail on an alloy containing 10% Th. Fig.4 shows the curves of the kinetics of hardening of this alloy in Card 2/5 a coordinate system hardness vs. time; the progress of

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SOV/24-58-8-16/37 of Magnesiun

Influence of Thorium on the " Heat Resistance and Some of its Alloys

ageing was investigated for ten hours. However, it was found that in all cases the hardness hardly changed after the first five hours. The highest hardness was obtained as a result of artificial ageing for three hours at 250° On the basis of the obtained results heat treatment regimes were selected for comparative investigation of the short duration and long duration hardness at 300°C; the obtained data are entered in Table 3. The hardness of ternary alloys was investigated under conditions similar to those pertaining to the binary alloys of Mg with Th; the results of these investigations as well as the compositions of the investigated alloys are summarised in Table 4. The best results at room temperature were obtained by alloying the Mg-3% Th alloy with Ce; the hardness of this alloy increased continuously with increasing Ce content. Ca and Zn have a positive influence in quantities of 0.5 to 1%. additions of Mn and Al lead to some decrease in the hard-Card 3/5 ness and only a further increase of the Mn and Al contents

SOV/24-58-8-16/37 of Magnesium and

Influence of Thorium on the Heat Resistance Some of its Alloys

brings about an increase in the hardness. In Fig. 6 the influence is graphed of additions of Al, Ca, Ce, Mn and Zn on the long duration hardness of the Mg-3% Th alloy. An idea of the influence of the various components on the high temperature strength of a Mg-3% Th alloy can be gained from the data of Table 5, which contains a comparison of the short duration and the long duration hardness at 300°C (after stabilisation annealing at this temperature for 100 hours) of the ternary alloys; in addition to the better experimental results of the authors themselves, this table contains data for alloys Mg-Th-Zr and Mg-Th-Zr-Zn, alloys which are most widely publicised in Western literature. These alloys were produced by the authors and tested under conditions similar to those applied to the earlier investigated alloys. It can be seen that the highest hardening of Mg-Th alloys at elevated temperatures is ensured by such elements as Mn For these, the highest hardness values were obtained, higher even than those containing zirconium and

Card 4/5

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SOV/24-58-8-16/37

Influence of Thorium on the Heat Resistance of Magnesium and Some of its Alloys

zinc. Engineer I. M. Bavykina and G. M. Bordina participated in the experiments. There are 6 figures and 5 tables and 3 references, all of which are English.

SUBMITTED: October 8, 1957

- 1. Heat resistant alloys--Properties 2. Magnesium--Properties
- 3. Magnesium alloys--Mechanical properties 4. Magnesium alloys
- --Temperature factors 5. Magnesium alloys--Test results 6. Thorium --Metallurgical effects

Card 5/5

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387

sov/180-59-2-24/34

Drits, M.Ye., Mal'tsev, M.Y., and Padezhnova, Ye.M. AUTHORS:

(Moscow)

Investigation of Alloys of the Ternary System TITLE:

Magnesium - Thorium - Manganese (Issledovaniye splavov

troynoy sistemy magniy-toriy-marganets)

PERIODICAL: Izvestiya akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, Metallurgiya i toplivo, 1959, Nr 2, pp 121-123

(+ l'plate) (UŠSR)

ABSTRACT: In the work described the magnesium corner of the

magnesium-thorium-manganese equilibrium diagram with up to 3% manganese and 9% thorium was investigated.

experimental work was carried out with the participation of G.M. Bordina. Grade Mrl magnesium (99.91% Mg),

Mg - Mn (3.66% Mn) and Mg Th (16.72% Th) were used to prepare the alloys by fusion in steel crucibles under a flux layer (40-46% MgCl₂, 34.40% KCl, 5-8% BaCl₂ and

3-5% CaF2). The ingots were forged at 450 °C and annealed at 550 °C for 100 hours and cut up.

specimens were sealed in quartz ampoules and subjected

to prolonged heating at various temperatures followed by

water quenching. Microstructures were determined after Card 1/2

sov/180-59-2-24/34

Investigation of Alloys of the Ternary System Magnesium-Thorium-

Manganese

etching with 0.5% nitric acid. Fig 1 shows some microstructures. Fig 2 shows isothermal sections, and Fig 3 polythermal sections for 1% Th and 8% Th. The nature of the phases was further studied with the aid of X-ray structural analysis and local microhardness determinations. Thermal analysis of certain alloys was carried out to determine phase-change temperatures.

carried out to determine phase-change temperatures.

Card 2/2 There are 3 figures and 3 references, 2 of which are Soviet and 1 German.

SUBMITTED: November 19, 1958

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387

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		Card (V 8	Bennibers, S.Te. Effect of Mers-Earth Metals on Julius Distribution and Militas (EESSHIlan in Chromius-Michal-Molytdamus Steel 259	Metals on Mechanical Properties of Magnesium Alloys of the Magnesium-Manga- 299 sees and Magnesium-Manganese-Gerium Systems 299 sees and Magnesium-Manganese-Gerium Systems 299 sees and Magnesium-Manganese-Gerium Systems 200 sees and Magnesium-Manganese-Gerium Systems 299 sees and Magnesium-Manganese-Gerium Systems 200 sees and Manganese-Gerium Systems 200 sees and Manganese-Gerium-Manganese-Geriu	Minne Tyre, Taile, Magnesium Alloys With Ears Metals 240 Minheyer, I.M., and J.L. Linkey, Effect of Sary-Earth and Allalis-Earth		Tilbore, S.M., L.A. Blothins, and L.A. Linna'yers. Magnesium Casting Alloys With Mara-Carth Metals	Labeders, 2.7., 1.6. Koraler, and O.F. Lucal panors. Proaght Magnesium alloys 209	Rare Metals (Cont.)	Par II. Tiratoc, ed ocepta-base Alios vits best-dell'obtilos Ocepta-base Alios vits best-dell'obtilos Ocepta-base Alios vits best-dell'ocepta-base Alios vits best-	on properties of megasion alloys and sceels is analysed. The mass of thenium as a daipfuncing catalyst, alectroplating material, and material multable for making plugs for entemphis electrical systems are discussed. hims, the effects of the addition of certain electrical systems are discussed these classificatives. It is a standard and alloys with special physical properties (perticularly semiconductive alloys) are discussed. No personalities are mentioned. Soriet	COTELACE. The collection contains technical payers which were presented and discoused at the Tirst All-Chion Conference on Bare-Westl Milory, held in the limitation of Metallurgy, Andray of Sciences USER in Sovember 1957. Results of investigations of rere-seal alloys, titering and opport-base alloys with additions of rere-seals alloys, research and discussed along with investigations of Phenium, wanddum, michium, and their alloys. The effect of rere-search setals	PURPOSS: This collection of articles is intended for metallurgical engineers, physicists, and workers in the machine-building and radio-engineering industries. It may also be used by students of schools of higher education.	Ed.: I.E. Superalor; Ed. of Publishing Scuse: O.M. Kazzyera; Tach. Ed.: P.G. Islan' yers.	Sponsoring Ageodes: Abademiya nank SKER. Institut metallurgil; UKSE Komissiya po redkim metaliam pri nanohno-tehhnichsakom komitate.	Redriye metally 1 splavy; trudy (fare Matals and Alloys; Transactions of the First All-Union Conference on Rere-Matal Alloys) Moscow, Metallurgisdat, 1960. 438 p. 3,190 copies printed.	Team a Dona Executionates Suffaces, Suffaces, Vermeyunneys sovesholaniya po splavem rednikh metallor. 1st, Moscow, 1957	More than the state of the stat		

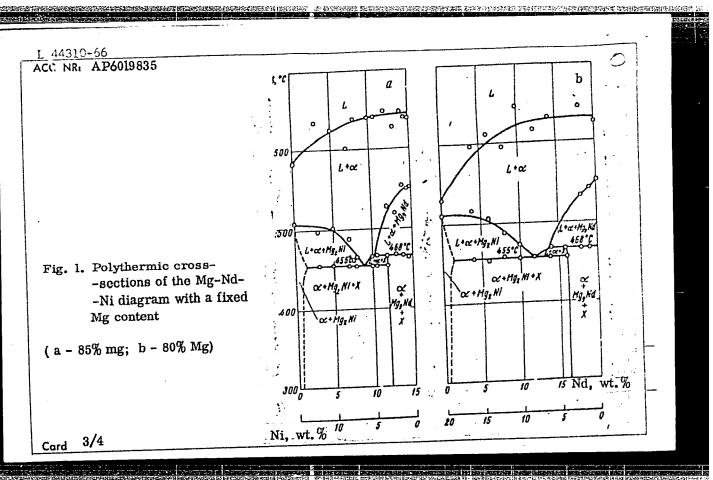
DRITS, M.Ye., kand.tekhn.nauk; MAL'TSEV, M.Ye.; PADEZHNOVA, Ye.M.;
BCRDINA, G.M.

Investigating ternary system Mg - Th - Mn alloys. Issl.splav.
(MIRA 13:5)

(Magnesium-thorium-manganese alloys)

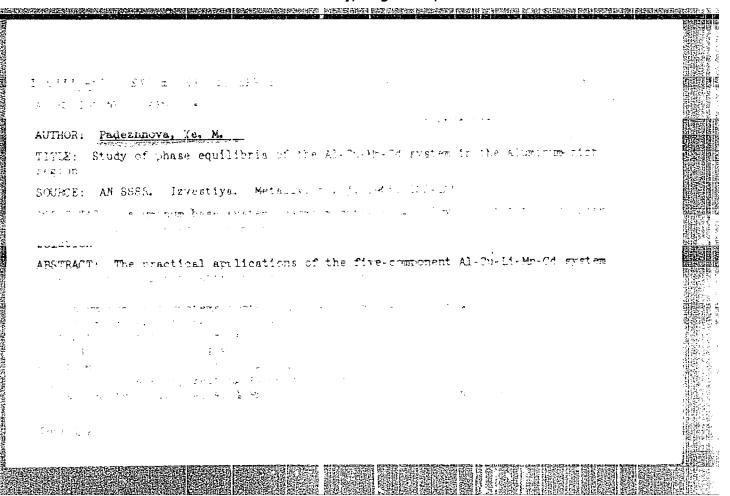
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44310-66 EWT(m)/EWP(t)/EU LIP(s) JD/JG/JH ACC NR: AP6019835 (A) SOURCE CODE: UR/0370/66/000/001/0149/0152
AUTHOR: Drits, M. Ye. (Moscow); Padezhnova, Ye. M. (Moscow); Bochvar, N. R. (Moscow)
ORG: none
FITLE: Constitution diagram of the Mg-Nd-Ni system in the Mg-rich region
TOPIC TAGS: phase analysis, ternary compound, magnesium base alloy, neodymium, nickel/
ABSTRACT: Alloys of the Mg-Nd-Mn system containing small amounts of Ni display high mechanical properties at elevated temperatures. The elucidation of the role of Ni in strengthening the alloys of Mg with Nd and Mn as yet requires investigating the nature of the interaction between components in ternary (Mg-Nd-Mn, Mg-Nd-Ni and Mg-Mn-Ni) and quaternary (Mg-Nd-Mn-Ni) systems. In this connection, as well as considering that the constitution diagram of the Mg-Nd-Ni system in the Mg corner is as yet unknown, the article presents a diagram of the Mg-Nd-Ni system in the Mg corner as based on the findings of thermal and mi-
gram of the crystallization surface for this corner as about the crystallization surface for this corner as a crostructural analyses of Mg-Nd-Ni specimens specially melted in electric resistance furnaces
UDC: 669.017.13
Card 1/4

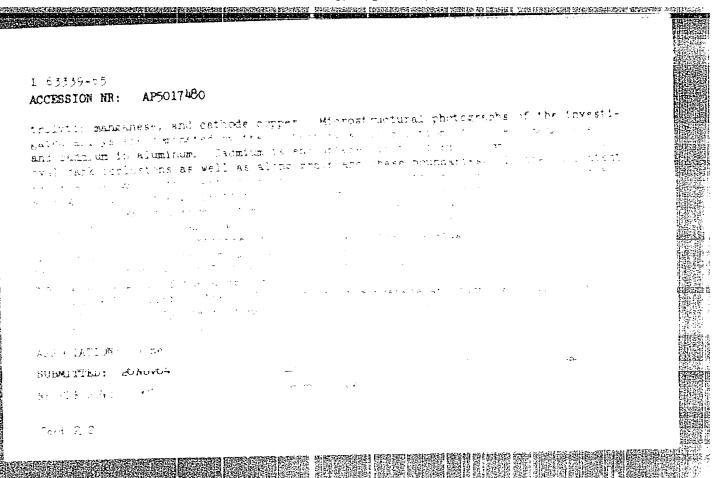


	SOURCE CODE: UR/0370/66/000/003/0165/0171
AUTHOR: Drits, M. Yo. (Moscow); Padezhnova, Ye. M. (Moscow)
ORG: none	1 1 27
TITIE: Phase composition	n and aging of alloys of the aluminum-copper-
manganese-cadmium system	
SOURCE: AN SSSR. Izves	tiya. Metally, no. 3, 1966, 165-171
TOPIC TAGS: aluminum ba	se alloy, phase composition, metal aging
ABSTRACT: The article g	ives the results of a study of the isothermal
cross sections of allovs	with a constant content of 0.5% manganese and
cross sections of alloys 0.2% cadmium, and of an alloys. Materials for p	with a constant content of 0.5% manganese and investigation of the effect of aging on some reparing the alloys to be tested were: aluminum
cross sections of alloys 0.2% cadmium, and of an alloys. Materials for p (99.985%), cadmium (99.9	with a constant content of 0.5% manganese and investigation of the effect of aging on some reparing the alloys to be tested were: aluminum 1%), and alloys made of electrolytic manganese
cross sections of alloys 0.2% cadmium, and of an alloys. Materials for p (99.985%), cadmium (99.9 and copper. The casting After threefold deformat	with a constant content of 0.5% manganese and investigation of the effect of aging on some reparing the alloys to be tested were: aluminum 1%), and alloys made of electrolytic manganeses had a diameter of 20 mm and a height of 60 mm. ion (shrinkage 50%) and twofold pressing (degree
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cross sections of alloys 0.2% cadmium, and of an alloys. Materials for p (99.985%), cadmium (99.9 and copper. The casting After threefold deformat of compression about 60% Between the deformations was performed. Final an	with a constant content of 0.5% manganese and investigation of the effect of aging on some reparing the alloys to be tested were: aluminum 1%), and alloys made of electrolytic manganeses had a diameter of 20 mm and a height of 60 mm. ion (shrinkage 50%) and twofold pressing (degree), rods with a diameter of 6.5 mm were obtained., homogenizing annealing at 500°C for 24 hours nealing at temperatures of 530, 500, and 400°C 200, and 600 hours, respectively. The content
cross sections of alloys 0.2% cadmium, and of an alloys. Materials for p (99.985%), cadmium (99.9 and copper. The casting After threefold deformat of compression about 60% Between the deformations was performed. Final an	with a constant content of 0.5% manganese and investigation of the effect of aging on some reparing the alloys to be tested were: aluminum 1%), and alloys made of electrolytic manganeses had a diameter of 20 mm and a height of 60 mm. ion (shrinkage 50%) and twofold pressing (degree), rods with a diameter of 6.5 mm were obtained., homogenizing annealing at 500°C for 24 hours nealing at temperatures of 530, 500, and 400°C

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S/509/62/000/011/009/019 E071/E351

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AUTHORS:

Drits, M.Ye., Sviderskaya, Z.A., Rokhlin, L.L.,

Padezhnova, Ye.M. and Yakovleva, L.I.

TITLE:

The relationship between strength at elevated tempera-

ture and composition of magnesium-base alloys

SOURCE: :

Akademiya nauk SSSR. Institut metallurgi. Trudy. no. 11. Moscow, 1962. Metallurgiya, metallovedeniye,

no. 11. Moscow, 1902. Action 124 - 132 fiziko-khimicheskiye metody issledovaniya. 124 - 132

TEXT: A study of the relationship between composition and strength at high temperatures for deformed and heat-treated magnesium alloys was carried out, as the only available data covered a limited number of alloys, in the cast state. The binary covered a limited number of alloys, in the cast state. The binary alloys investigated over a temperature range of 150 - 300°C were: Mg-Al; Mg-Zn; Mg-Mn; Mg-Th; Mg-Ce; Mg-Nd and Mg-Ca. Cast Mg-Al; Mg-Zn; Mg-Mn; Mg-Th; Mg-Ce; Mg-Nd and Mg-Ca. Cast ingots, after cleaning by machining, were pressed into rods, ingots, after cleaning by machining, were pressed into rods, alloys were homogenized before pressing (at 400 and 340°C, alloys were homogenized before pressing (at 400 and 340°C, respectively) for 50-60 hours; the remaining alloys were not homogenized. The pressing temperature was 300 - 440°C, the temperature Card 1/3

S/509/62/000/011/009/019 E071/E351

The relationship between

of the container being 250 - 400 °C. Specimens prepared from these rods were hardened in water at 60 - 70 °C, Mg-Al from 415 °C, Mg-Zn from 315 °C, Mg-Mn, Mg-Th and Mg-Ce from 550 °C, Mg-Nd from 520 °C and Mg-Ca from 490 °C, following which they were stabilized at the test temperature for 100 hours. The strength-testing of the alloys at elevated temperatures was carried out by determination of the hardness under prolonged loading (hours). The results showed that the best structure for obtaining the maximum heat-resistance would be different for each system, depending on the nature of the intermetallic components. In systems having a high solubility of the alloying element in solid magnesium and marked changes in solubility with temperature, the best structure is a highly-alloyed solid solution (Mg-Al, Mg-Zn). This is particularly the case at higher temperatures. In such systems an intense development of the interactions at the inter-phase boundaries and a strong tendency to weakening in the second phase itself lead in most cases to heterogenization of the structure having little effect. In systems with a severely limited

Carú 2/3

S/509/62/000/011/009/019 E071/E351

The relationship between

alloying-element solubility in solid magnesium and a small change in the solubility with temperature, the strongest effects of alloying are shown by those with a structure of decomposed solid solution (Mg-Mm, Mg-Th, Mg-Ce, Mg-Nd, Mg-Ca). The appearance in the alloy structure of dispersed particles of heat-resistant secondary phases and the absence of noticeable interaction at the interphase boundaries at elevated temperatures allow heterogenization to exert a strong influence. A comparison of the authors' results and the published data show a correspondence in the nature of the relationships despite the fact that the authors' results were obtained on deformed and heat-treated materials, and the published data were for cast alloys. There are 5 figures.

Card 3/3

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AUTH(DR: <u>Drits, M.</u>	Ye.; Kadaner,	E. S.; Pade	zhnova, Ye. M.		
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s/509/60/000/004/004/024 E021/E106

AUTHORS:

Drits, M.Ye., Mal'tsev, M.V., Sviderskaya, Z.A.,

and Padezhnova, Yo.M.

Alloys of Magnesium Containing Thorium

PERIODICAL: Akademiya nauk SSSR. Institut metallurgii.

Trudy, No.4, 1960. Metallurgiya, metallovedeniye, fiziko-khimicheskiye metody issledovaniya, pp. 74-83

Several binary and ternary magnesium-thorium alloys have been investigated using additions of manganese, cerium, aluminium, zinc, calcium and zirconium. The properties of magnesium-thorium alloys and also the effects of the additions on the properties at both room and elevated temperature were examined. The alloys were cast in a 20 mm diameter metallic mould heated to 50-60 °C. The main method of investigating the properties consisted of short-time (30 sec) and long-time (60 min) hardness measurements. The hardnesses were measured at room temperature and 300 °C using a 10 mm ball and a 100 kg load. The alloys were stabilised at 300 °C for 100 hours before testing. were also made after quenching from 565 oc. A marked increase Card 1/3

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\$/509/60/000/004/004/024 Alloys of Magnesium. E021/E106 Calcium and zinc had a positive effect up to 0.5-1%, further additions showing no change. Low additions of manganese and aluminium gave a decrease in hardness. Further additions gave an increase. The greatest effect on the prolonged hardness at 300 °C was shown by 0.6-1% manganese. Cerium also showed an increase, but to a lesser degree. There are 5 figures, 6 tables and 3 English references. t,°G 14+ Mg,Th *800* 500 a + Mg Th 400 Fig. 2 300 200 *50* Th,% Card 3/3 Рис. 2. Диаграмма состояния сплавов Mg — Th

DRITS, M.Ye.; MAL'TSEV, M.V.; SVIDERSKAYA, Z.A.; PADEZHNOVA, Ye.M.;
TROKHOVA, V.F.

Effect of additional alloying on the properties of alloys in
the system Mg - Th - Mn. Issl. splav. tsvet. met. no.3:86-92
(MIRA 15:8)

(Magnesium-thorium-manganese alloys)

DRITS, M. Ye.; KADANER, E.S.; FADEZHNOVA, Ye.M.; BOCHVAR, N.R.

Determination of the mutual solubility boundaries of manamese

and cadmium in solid aluminum. Zhur. neorg. khim. 9 no.6:1397-1402 Je 163 (MIRA 17:8)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

PADGORETSKIY, M. I.

Padgoretskii, M. I. The statistical adaptation of experiments on the absorption of shower particles. Page 959.

The P. N. Lebedev Inst. of Physics Acad. of Sci., USSR June 26, 1950.

SO: Journal of Experimental and Theoretical Physics, Vol. 20, No. 10, October, 1950.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238"

"Concerning the utilization of chance coincidence for measurements of large

PADGORETSKIY, M. I. and KHVOLES, V. A.

intensities in the work with counters," Journal of Exptl. and Theoretical Physics, Vol. 18, No. 4, 1948.

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C-5

PADGORNYY, I.M.

USSR/Nuclear Physics

: Referat Zhur - Fizika, No 5, 1957, 11250 Abs Jour

: Padgornyy, I.M. Author

: Not given Inst

X-Ray Emitted Upon Start of Gas Discharge. Title

Dokl. AN SSSR, 1956, 108, No 5, 820-822 Orig Pub

Brief report of certain results of an investigation on Abstract

the X-rays occurring during an electric discharge in hydrogen at low pressures, 10-2 -- 10-1 mm mercury. The X-rays of the discharge were emitted from a discharge through aluminum windows and were recorded with the aid of a luminescent crystal and a photomultiplier with an oscillograph. Simultaneous oscillograms were also taken of the voltage on the discharge tube. It is shown

that a pulse of X-rays of duration of approximately

Card 1/2

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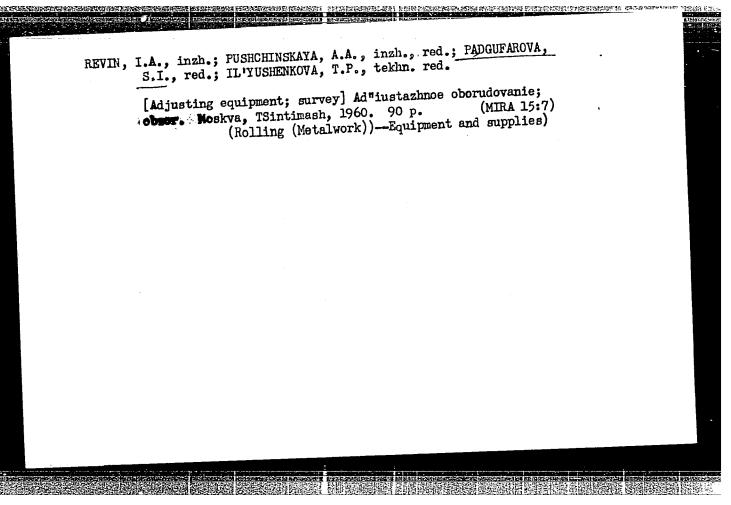
USSR/Nuclear Physics

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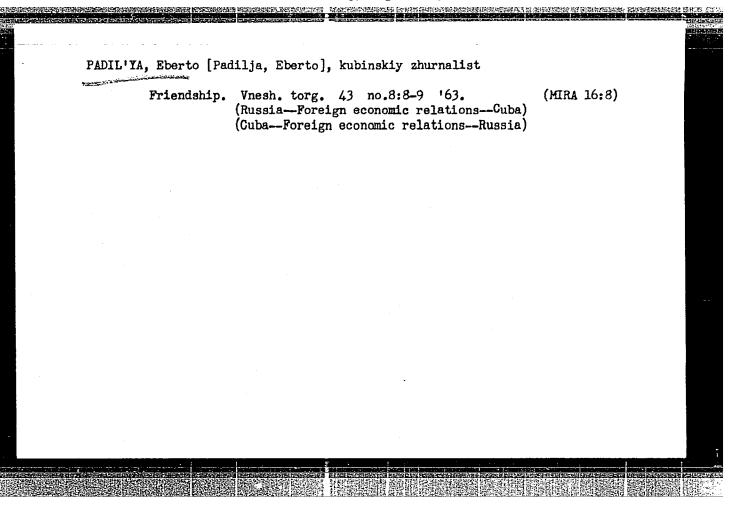
Abs Jour : Ref Zhur - Fizika, No 5, 1957, 11250

l microsecond appears at the instant when the voltage drops across the electrode. It is established that as the hydrogen pressure increases, the intensity of the starting X-ray radiation diminishes and at a pressure of approximately 1 mm mercury it becomes vanishingly small. The results obtained are explained by the influence of ionization losses of the electrons. See also Referat Zhur Fizika, 1957, 6077.

Card 2/2



"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238



USSR / General and Specialized Zoology. Insects. Porest Posts. : Rcf Zhur - Biol., No 17, 1958, No 78572 Abs Jour Author : Fedin, II. II. Inst : Not given Title : Lorch Fourly Flatycompus Ovetus Zodd. (Hymenoptore, Tenthredinidec) in the Forests of the USSR. : Entomol. obozroniya, 1957, 36, No 4, 640-642. Orig Fub Abstract : The larch sawfly was noted among the found of USSR for the first time in 1954, whereas it is common in Central Europe. Its life cycle in the Ukreine was studied. The durations for all phases of development, description of image and larvae are given. The sawfly has two generations yearly. The pest is found more often in plentations of lerch of II.III classes of age; the amount of damage to the needles on separate trees by three species, together with Lygreonematus laricis and F. duplex, reached 25%. For control, dusts of DDT (5.5%) and hexachlorocyclohexene 12% are recommended. . Yc. L. rons. Cerd 1/1

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238"

PADISAK, M.

"The dispatcher service of MAGYAR HADIO." p. 12. (MAGYAR RADIO, Vol. 9. no. 11, Mar. 1953. Budapest.)

S.: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress August, 1953, Uncl.

PADISAK, M.

"The dispatcher service of Hungarian radio." p. 3. (MAGYAR RADIO, Vol. 9, no. 17, Apr. 1953. Budapest.)

So: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress August, 1953, Uncl.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387

PADISAK, M.

"On the Track of Winter Potatoes and Cheap Onions; Notes of a radio correspondent" p. 9 (Marvar Radio, Vol. 9, No. 45, November, 1953, Budapest)

So: Monthly List of Byssish Accessions / Library of Congress,

1954 rch 1957, Uncl.

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012387

PADIVENKO, I.K., inth., VOSKOYHIKOV, M.A., inch.

Hacbinery and automatic devices designed by a group of factroy workers. Stroi.mat. 5 no.?:26-30 Jl 159, (MIRA 12:10)

([Trpen-- Brick industry--Equipment and supplies])

PADIY, N. N.

Larch- Ukraine

Pests of larch seeds in the Ukrainian SSSR Les. khoz. no. 1, 1952.

Monthly List of Russian Accessions. Library of Congress. September 1952. UNCLASSIFIED.

PADIY, N. N.

June Bug (Lachnosterna)

Use of hexachloran to control the larvae of June bugs in forest nurseries. N. N. Padiy. Les. Khoz. no. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001238

PADIY, N. N.

"Larch Tree Planting Fests in the Ukrainian SSR and Measures for Fighting Them." Cand Biol Sci, Inst of Zoology, Acad Sci Ukrainian SSR, Kiev, 1953. (RZhBiol No 1 Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Figher Educational Institutions (13) SOL Sum. 598, 29 Jul 55

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 25779

Author

: Prdiy N.N.

Inst

: Not Given

Title

: The Protection of Reconstructed Plantings from Pests in the Vinnitar region. (Zashchita reconstruiruyemykh nasazhdeniy Vinitakoy oblasti ot vrediteley).

Orig Pub : Neuchn. tr. Ukr. s.kh. ekcd., 1956, 8, 231-240

Abstract: In the Vinnitsa oblast 274 species of insacts, harmful for the forest, were found. The principal primary posts were: the winter measuring worm moth, the pooling meth, the gypsy moth, the brown-teil moth, the filver "lumka", the oak flee and others. The winter measuring worm moth brad in multitudes especially in maturing, sperse, pure oak plantings without an underbrush and in turf-covered soil. Raising of mixed plantings with an underbrush of a variety of trees, impeding the sparsity of the plantings and regulating pasturing in the

Oard : 1/3

P

USSR/General and Special Zoology. Insects

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Abs Jour : Rof Zhur - Biol., No 6, 1958, No 25779

forest created unfeverable conditions for mass propagation of the principal posts and favorable conditions for prodecious insects, peresites and birds. To control the winter mocsuring worm moth it was recommended that the larvee infeeted with techines (Besse selecta) during the time of their going into the soil for purposes of passing into the chryselis stage be transferred from dying out centers of infection into newly developing; for control of the gypsy moth it was recommended to transfer the coccoons of the ichneumon fly Aprneteles porthetrice (prior to their emergence) from dying out centers into newly developing ones. In order to imporve the senitary conditions of the trees it was necessary to carry out senitery cutting of all dry trees in the region before the larvee of the secondary pests passed into the chryselis stage. In order to increese the resistance to the Dutch disease and to infostations with alm bark beatles and with ash bark beatles it was necessary to limit the elm variaties to 10% and the ash tree varieties to 20% of the plantings. The turkestan : 2/3

USSR/General and Special Zoology. Insects

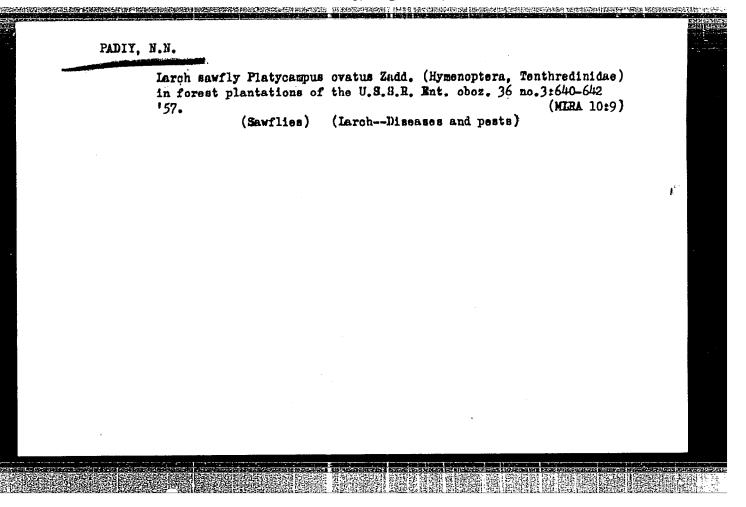
F

Abs Jour : Rof Zhur - Biol., No 6, 1958, No 25779

olm tree, more resistent to the Dutch disease, and the green ash tree, less frequented in the Vinnitsa oblast by secondary posts than the common ash tree, should be introduced into the plantings.

Card : 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387



USSR / General and Specialized Zoology. Insects. Pests of Wood and Buildings.

Abs Jour : Ref Zhur - Biologiya, No 16, 1958, No. 73735

Author

: Padiy, N. N.; Spektor, M. R.

Inst

: Not given

Title

: The Use of DDT in Sanitary Felling to Destroy Trunk

Pests

Orig Pub

: Lesn. khoz-vo, 1958, No 6, 84

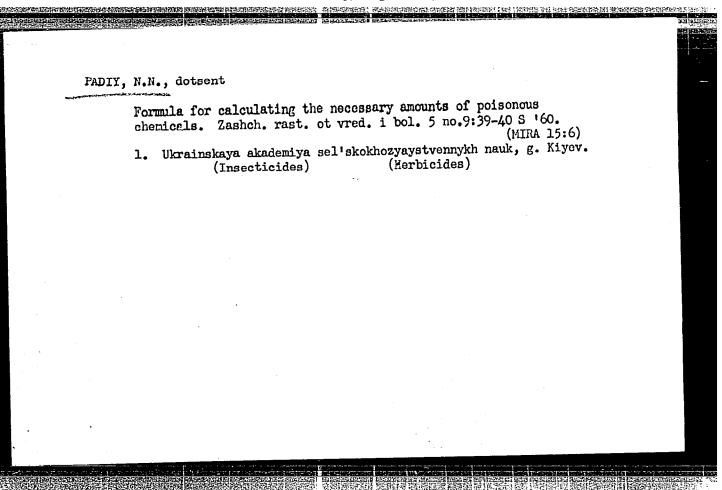
Abstract

: Pine logs 30 - 48 cm. in diameter, which were completely infested with engraver beetles and partially with pine beetles, were sprayed with a 5% solution of DDT in diesel oil when about 10% of the larvae had stopped feeding, but the pupae were not yet formed. After 2 weeks, the logs were stripped. As a result all larvae perished; 36.7% of the pupae and adult beetles perished in logs with bark 3 - 5 cm. thick; 88.4%, with

Card 1/2

33

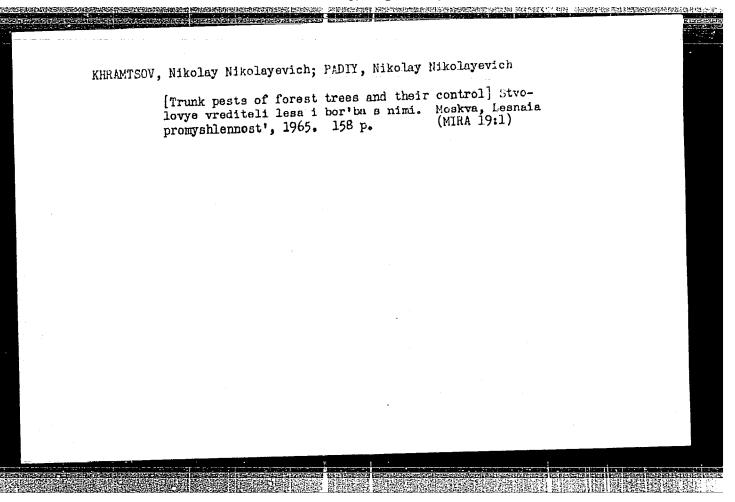
APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387



PADIY. Nikolay Nikolayevich; BREDIKHIN, A.M., red.; PEVZNER, V.I., tekhn. red.

[Brief guide to pests feeding on needles and leaves] Kratkii opredelitel; khvoe-i listogryzushchikh vreditelei. Moskva, Gos. izd-vo sel;khoz. lit-ry, 1961. 78 p. (MIRA 14:8) (Forest insects—Identification)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387



Course in the protection and measurement techniques for the personnel of distributive enterprises. Energija Hrv 10 no. 1/2:53. '61

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387

ACC NR. AP6018230

(N)

SOURCE CODE: UR/0416/66/000/002/0048/0052

AUTHOR: Padkin, V. (Lieutenant Colonel; Member of Medical Service; Candidate of

Medical Sciences)

ORG: None

TITLE: Health and well-being of the submariner

SOURCE: Tyl i snabzheniye sovetskikh vooruzhennykh sil, no. 2, 1966, 48-52

TOPIC TAGS: health, human physiology, nuclear submarine, food service equipment, special purpose clothing, naval medicine

ABSTRACT: The hardships of crew life aboard nuclear submarines on long submerged patrols, the climatic conditions encountered on long cruises, and their influence on crew physiology are discussed. Special clothing, including expendable (one time wear) clothing, is discussed. Deficiencies, including inadequate food service, and a plea made for more qualified food service personnel, improved galley equipment for submarines, and a need for prepackaged and frozen prepared foods, are high-lighted. Medical service is discussed, including mention of operating facilities. Deficiencies in certain dosages of common medicines are criticized. The need for improved forms and methods for maintaining physical fitness on board submarines is suggested as the best way to maintain the all around physical well-being of the submariner. Orig. art. has: 2 figures.

SUB CODE: 06,15/SUBM DATE: None

Card 1/1

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP8

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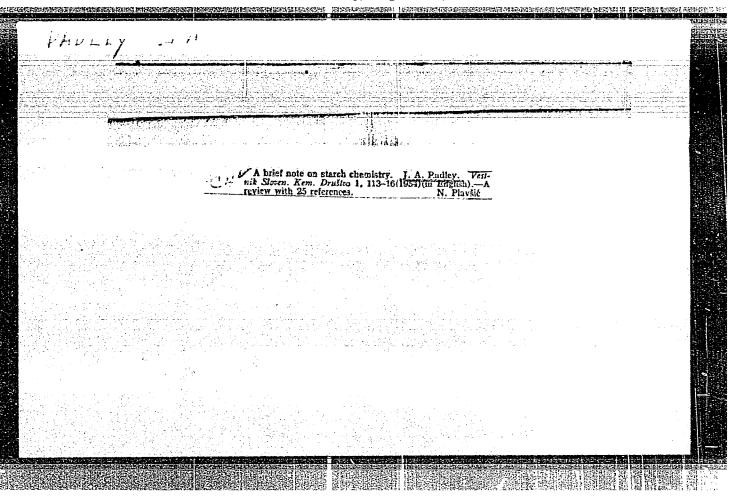
PADL, V.

Application of ion exchangers of Czechoslovak make for water demineralization.

p. 356 (ENERGETIKA) Vol. 6, no. 8, Aug. 1956, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3, March 1958

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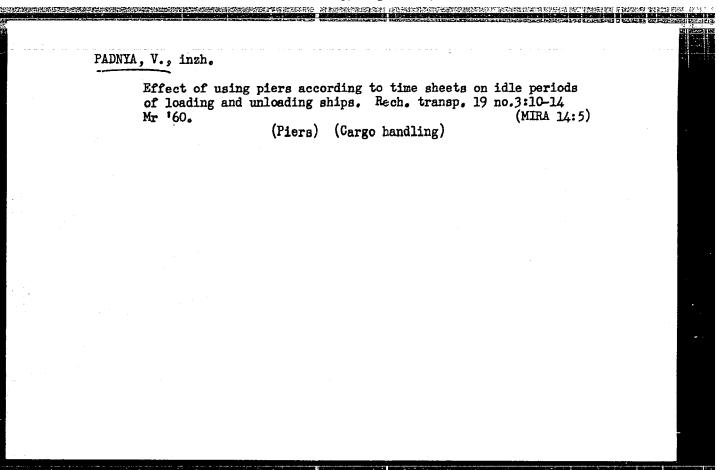


· SELYE, H.; PADMANABHAN, N.; STREBEL, R.

Histogenesis of connective tissue caldification caused by KMn04 and Mother calcifiers. Cas. Lek. Cesk. 101 no.16/17:523-526 27 Ap 162.

1. Institut interniho lekarstvi a experimentalni chirurgie, Universita v Montrealu, Kanada.

(CALCIFICATION etiology) (CONNECTIVE TISSUE pharmacol) (ANTISEPTICS toxicol)



PADNYA, V. A.

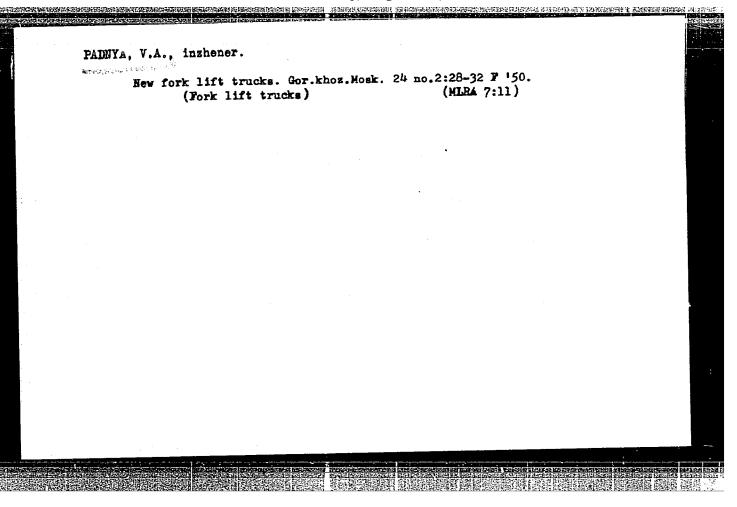
Padnya, V. A. "Mechanization of loading-unloading work in the Moscow railroad terminal," Gor. khoz.-vo Moskvy, 1948, No. 12, pp. 28-33

SO: U-3264, 10 April 53 (Letopis 'Zhurnal 'nykh Statey, No. 4, 1949).

PADNYA, V.A.; PETUKHOV, G.S.; SUCHKOV, A.I., redaktor; KUDRYAVTSEVA,

ALDER OF SERVICE OF THE SERVICE OF SERVICE O

[Mechanization of loading and unloading of lumber in railroad transportation] Mekhanizatsiia pogruzki i razgruzki lesomaterialov na zhelsznodorozhnom transporte. Moskva, Gos. lesbumizdat. 1950. 63 p. [Microfilm]. (MIRA 8:7) (Loading and unloading) (Lumber--Transportation)

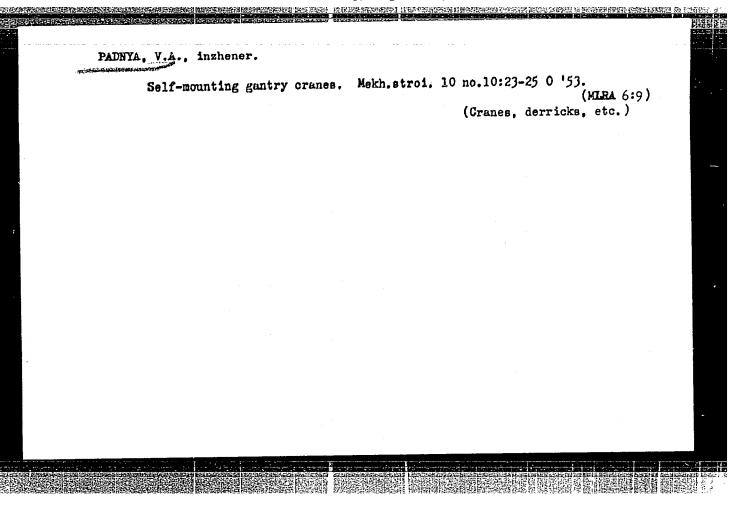


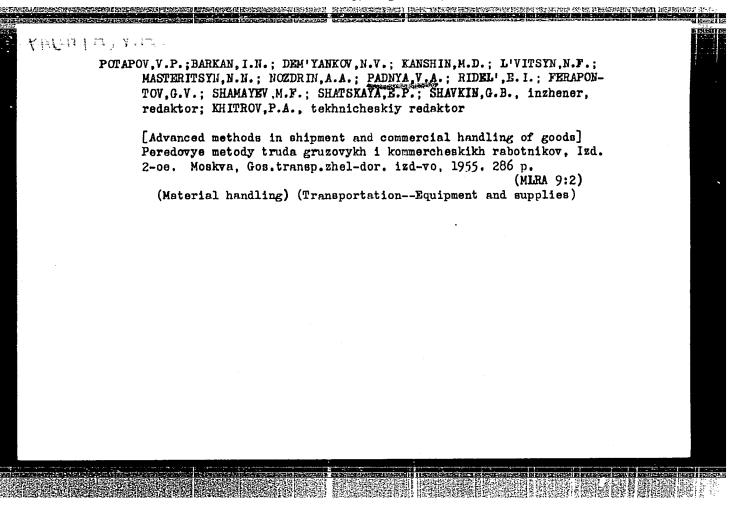
POTAPOV, V.P., redaktor; KANSHIN, M.D.; L'VITSYN, N.F.; MASTERITSYN, N.N.;
NOZDRIN, A.A.; NIKITYUK, A.P.; PADNYA, V.A.; RIDEL', E.I.; FERAPONTOV, G.V.; SHAMASEV, M.F.; SHATSKAYA, E.P.; GULEV, Ya.F., redaktor;
VERINA, G.P., tekhnicheskiy redaktor.

[Advanced methods for workers in material handling] Peredovye metody
truda kommercheskikh rabotnikov. Moskva, Gos. transp. zhel-dor. izd-vo,
1953. 262 p. [Microfilm]
(Material handling)

(Material handling)

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PACLNYA,

BENESHEVICH, I.I., kandidat tekhnichenkikh nauk; BOGIN, N.H., kandidat tekhnicheskikh nauk; BYKOV, Ye.I., inzhener; VLASOV, I.I., kendidat tekhnicheskikh nauk; GRITSEVSKIY, H.Ye., inzhener; GRUBER, L.O., inzhener GURVICH, V.G., inzhener; DAVYDOV, V.N., inzhener; YER-SHOV, I.H., kandidat tekhnicheskikh mauk; ZASORIN, S.N., kandidat tekhnicheskikh nauk; IVANOV, I.I., kandidat tekhnicheskikh nauk; KRAUKLIS, A.A., inghener; KROTOV, L.B., inghener; LAPIN, V.B., inzhener; LASTOVSKIY, V.P., dotsent; LATUHIN, N.I., inzhener; MARKVAHDT, K.G., professor, doktor tekhnicheskikh nauk; MAKHAYLOV, M.I., professor, doktor tekhnicheskikh nauk; NIKANOROV, V.A., inzhener; OSKOLKOV, K.N., inzhener; OKHOSHIN, L.I., inzhener; PARFENOV, K.A., dotsent, kandidat tekhnicheskikh nauk; PERTSOVSKIY, L.M., inzhener; POPOV, I.P., inzhener; PORSHNEV, B.G., inzhener; RATNER, M.P., inzhener; ROSSIYAVSKIY, G.I., dotsent, kandidet tekhnicheskikh nauk; RYKOV, I.I., kandidat tekhnicheskikh nauk; RYSHKOVSKIY, I.Ya., dotsent, kandidat tekhnicheskikh nauk; RYABKOV, A.Ya., professor [deceased]; TAGER, S.A., kandidar tekhnicheskikh nauk; KHAZEN, H.M., professor, doktor tekhnicheskikh nauk; CHERNYSHEV, M.A., doktor tekhnicheskikh nauk; KBiN, L.Ye., professor, doktor tekhnicheskikh nauk; YURENEV, B.N., dotsent; AKSENOV, I.Ya., dotsent, kandidat tekhnicheskikh nauk; ARKHANGEL SKIY, A.S., inzhener; BARTENEV, P.V., professor, doktor tekhnicheskikh nauk; BMENGARD, K.A., kandidat tekhnicheskikh nauk; BOROVOY, N.Ye., dotsent, kandidat tekhnicheskikh nauk; BOGDANOV, I.A., inchener; BOGDANOV, N.K., kandidat tekhnicheskikh nauk; VIHNICHENKO, H.G., dotsent, kandidat ekonomicheskikh nauk;

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387

DATE (SAME CONT

RENESHEVICH, I.I .--- (continued) Card 2. VASILOYEV, V.F.; GONCHAROV, N.G., inchener; DERIBAS, A.T., inchener; DOBROSEL'SKIY, K.H., dotnent, kundidat tekhnicheskikh neuk; DLUGACH, B.A., kandidat tekhnichaskikh nauk; TEFIMOV, G.P., kandidat tekhnicheskikh nauk; ZEMBLINOV, S.V., professor, doktor tekhnicheskikh nauk; ZABELLO, M.L., kandidat tekhnicheskikh nauk; IL'IN, K.P., kandidat tekhnicheskikh nauk: KARETNIKOV, A.D., kandidat tekhniches skikh nauk; KAPLUN, F.Sh., inzhener; KANSHIN, M.D.; KOCHHEV, P.P., professor, dokter tekhnicheskikh nauk; KOGAN, L.A., kandidat tekhnicheskikh nauk; KUCHURIN, S.F., inzhener; LMVASHOV, A.D., inzhener; MAKSIMOVICH, B.M., dotsent, kandidat tekhnicheskikh nauk; MARTYNOV, M.S., inzhener; MEDEL: O.M., inzhener; NIKITIN, V.D., professor, kandidat tekhnicheskikh nauk; PADNYA, V.A., inzhener; PANTELRYEV, P.I., kandidat tekhnicheskikh nauk; PETROV, A.P., professor, doktor tekhnicheskikh nauk; POVCROZHENKO, V.V., professor, doktor tekhnicheskikh nauk; PISKAREV, I.I., dotsent, kandidat tekhnicheskikh nauk; SERGEYEV, Ye.S., kandidat tekhnicheskikh nauk; SIMONOV, K.S., kandidat tekhnichekikh nauk; SIMANOVSKIY, M.A., innhener; SUYAZOV, I.G., inzhener; TAIDAYEV, F.Ya., inzhener: TIKHONOV, K.K., kendidat tekhnicheskikh nauk; USHAKOV, H.Ya., inzhenr; USPENSKIY, V.K., inzhener; FEL®DMAN, R.D., kandidat tekhnicreskikh nauk; FERAPONTOV, G.V., inzhener; KHOKHLOV, L.P., inzhenr: CHERHOMORDIK, G.I., professor, doktor tekhnicheskikh nauk; SHAMAYEV, M.F., inzhener; SHAFIRKIN, B.1., inghener; YAKUSHIN, S.I., inghener; GRANOVSKIY, P.G., redaktor; TISHCHENKO, A.I., redaktor; ISAYEV, I.P., dotsent, kandidat tekhnicheskikh nauk, redaktor; KLIMOV, V.F., dotsent kandidat tekhnicheskikh (Continued on next card)

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BENESHEVICH, I.I. (continued) Card 3. nauk, redaktor; MARKOV, M.V., inzhener, redaktor; KALININ, V.K., inzhener, redaktor; STEPAHOV, V.H., professor, redaktor; SIDOROV, H.I., inzhener, redaktor; GEHONIMUS, B.Ye., kandidat tekhnicheskikh mank, redaktor; ROBEL®, R.I., otvetstvennyy redaktor [Technical reference manual for railroad engineers] Tekhnicheskii spravochnik zheleznodorozhnika. Moskva, Gos. transp.zheledor. izdevo. Vol. 10. [Electric power supply for railroads] Energosnabzhenie zheleznykh dorog. Otv.red. toma K.G. Markvardt. 1956. 1080 p. Vol.13. [Operation of railroads] Ekspluatatsiia zheleznykh dorog. Otv. red. toma R.I.Robel*. 1956. 739 p. (MLRA 10:2) 1. Chlen-kerrespondent Akademii nauk SSSR (for Patrev) (Electric railroads) (Esilroads-Management)

SHUKSTAL', Ya.V., kand. ekonom. nauk; VERKHOVSKIY, I.A., kand. ekonom. nauk; FOMIN, V.M., kand. ekonom. nauk; MEZENEV, N.I., inzh.; DMITRIYEV, V.I., kand. ekonom. nauk; PALIYA, V.A., inzh.; Prinimali uchastiye: ZOTIKOVA, V.I., kand. ekonom. nauk; YELISEYEVA, T.V., inzh.; KUBLITSKAYA, V.Kh., inah.; KUDRYAVTSEVA, T.N., inzh.; MEZENEV, N.I., inzh.; TIKHONCHUK, M.K., inzh.; FEDOSOVA, V.N., tekhnik; DOBSHITS, M.L., red. izd-va; TIKHOMIROVA, S.G., tekhn. red.; LAUT, V.G., tekhn. red.

[Scope of the use of railroads and motorvehicles for short-distance freight haulage] Sfery primeneniia zheleznodorozhnogo i avtomobil'nogo transporta pri perevozke gruzov na korotkie rasstoianiia. Moskva, Izd-vo Akad. nauk SSSR, 1961. 197 p.

(MIRA 15:2)

1. Akademiya nauk SSSR. Institut kompleksnykh transportnykh problem.

(Transportation, Automotive) (Railroads-Freight)

NAMES OF THE PROPERTY OF THE P

PRAVIKOVA, G.P.; PADNYAN, V.A., inzh., nauchno-tekhn. red.; SPANOVSKAYA, A., otv. za vypusk; VOROTNIKOVA, L.F., tekhn. red.

[Mechanization and automation of loading and unloading operations in railroad transportation in the U.S.S.R. and foreign countries; bibliographic index of Soviet literature] Mekhanizatsiia i avtomatizatsiia pogruzochno-razgruzochnykh rabot na zheleznodorozhnom transporte v SSSR i za rubezhom; bibliograficheskii ukazatel' otechestvennoi literatury. Moskva, Vses. izdatel'sko-poligr. obmedinenie M-va putei soobshcheniia, 1961. 86 p. (MIRA 15:3)

1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya.
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(Bibliography—Loading and unloading)
(Bibliography—Railroads—Freight)

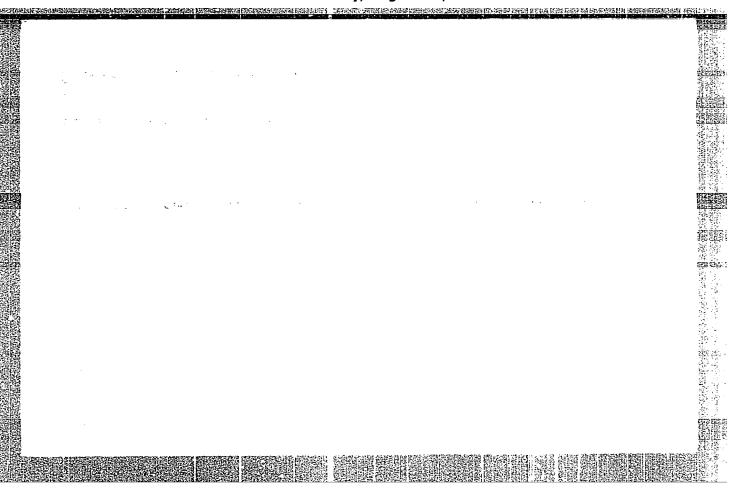
PAINYA, V.A., nauchnyy sotrudnik Regularities in the transportation processes and their effect or the selection of means of mechanization of loading and unloading operations ir automotive transportation. Trudy MHEI no.17:74-93 '61. (Transportation, Automotive) (Loading and unloading)

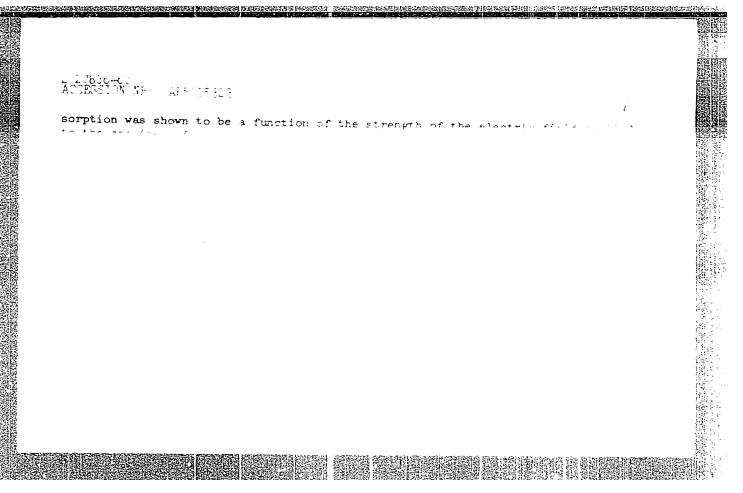
PADNYA, Vitaliy Akimovich; IMPSKIY, A.V., redaktor; VERINA, G.P.,

[Loading and unloading machines in railroad transportation; a reference manual] Pogrusochno-rasgrusochnye mashiny na shelesno-doroshnom transporte; spravochnik. Moskva, Gos.transp.zhel-dor. izd-vo, 1956, 458 p. (MIRA 10:1) (Loading and unloading)

PADNYA, Vitaliy Akimovich; BAZANOV, A.F., kand. tekhn. nauk, retsenzent; SHISHLYKOV. Ye.S., inzh., red.; USENKO, L.A., tekhn. red.

[Loading and unloading machines] Pogruzochno-razgruzochnye mashiny; spravochnik. Izd.2., perer. i dop. Moskva, Transzheldorizdat, 1963. 502 p. (MIRA 16:7) (Loading and unloading-Equipment and supplies)





37952 s/181/62/004/005/055/055 26,245 3162/E108 24,7700 Siterman, M. Sh., Krol', L. Ya., Hedvedev, V. A., Orlova, E. P., and Pado, G. S. Impurity band conductivity in n-type Saks :TI:121 ICALIONICAL: Fizika tverdogo tela, v. 4, no. 5, 1962, 1383-1385 TEXT: Results are given of measurements of the resistivity p, the Hall coefficient R and the magnetic resistance $\frac{\ell P}{\rho}$ on single crystals of n-type dails with inpurity concentrations of 10^{16} - 10^{17} on⁻³, at which interaction between the impurities and formation of an impurity band not fusing with the conduction band can be expected. The specimens were produced by zone melting in a horizontal boat of an ingot of chemically pure 3n and As. Analysis of the data shows that the single crystal specimens at temperatures below $55^{\circ} \rm K$ display conductivity in the impurity band. This effect is absent in the more contaminated single-crystal and polycrystalline specimens. The Hall mobility in the conduction band ? Cará 1/2

5/181/62/004/005/055/055 3162/3108

Impurity band conductivity in ...

is three to four times greater than in the impurity band. The magnetic resistance of the single-crystal specimens measured in a field of 2200 oc. becomes negative at temperatures below 200%, and for a polycrystal $\frac{L_{\gamma}^{\alpha}}{2}$ (a ever the whole range of 1.7° - 300°K. The conductivity in the impurity band in n-type Gaas does not lead to a change in the sign of the Eall effect at the lowest temperatures, as might have been expected for holes in the impurity band.

ASSOCIATION: Institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmeroniy (Institute of Physicotechnical and Radiotechnical

Measurements) Moscow

SUBLITTED:

November 16, 1961 (initially) Pebruary 14, 1962 (after revision)

Card 2/2

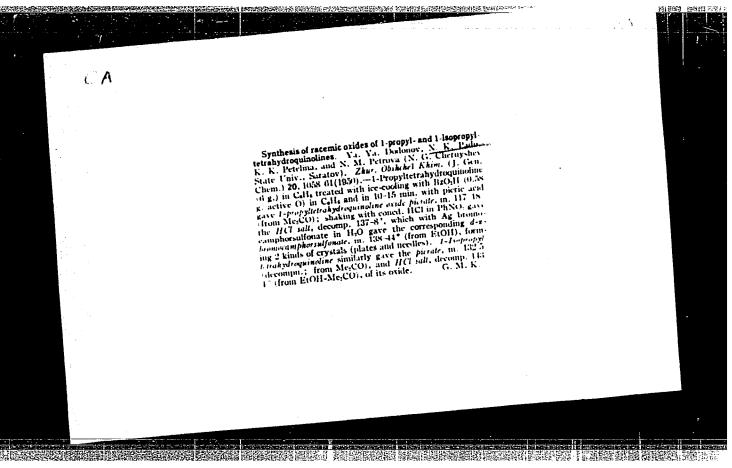
APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387

PADO, J.
ENDRE, S.

March of the brigade. p. 18.
(LUDOVY ROZHLAS., Vol. 9, no. 14, Mar. 1953, Czechoslovakia)

SO: Monthly List of East European Accessions, Vol. 2 #8, Library of Congress,

August 1953, Uncl.



PADO, R.

Mutual relation of protezeans and symbiotic algas in Paramacolum bursaria I. The influence of light on the growth of symbionts. Folia biol. (Krakow) 13 no.2:173-182 '65.

1. Institute of Plant Physiology, of Teacher Training College, Krakow.

s/121/61/000/005/001/005 DO40/D112

1. IIDO 1.1110 AUTHOR:

Padogin, A.A.

TITLE:

Scientific research work of ENIMS in 1960

PERIODICAL:

Stanki i instrument, 32-5, 1961, 3-8

TEXT: A general review of experimental research in the field of metalcutting machine tools conducted by ENIMS in 1960 is presented in 7 sections. 1) Design trends, machine types, specialization of plants. Dimension series were established for basic machine tool types. A plan for 1960-1965 includes set dates for design development, debugging and the start of series production of machines. Machine tool types were specified, and the specialization of plants continued. Every plant will be specialized in one or more types of machines and components. 2) Automation and mechanization. New hydraulic, electrical and mechanical systems and devices were designed, including gear pumps of 5 and 8 liter/min capacity for a pressure of 32 Kg/cm², two tubeless blade-type pumps for 50 Kg/cm2; one small 3 liter/min blade pump for minor feeds in automatic standard-unit machine tools; a series of electrically controlled slide valves for electro-hydraulic tracing systems

Card 1/7

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387

S/121/61/000/005/001/005 D040/D112

Scientific research work...

and program control with motion feedback. Telephone and telegraph relays were tested and found applicable in discrete control systems. A small-size economical d.c. drive was developed after the industry started the output of TBK (PVK) type silicon rectifiers for 50-100 amp and up to 300 v. The drive velocity is controlled by relaxation of the excitation field. A 7-30 kw main drive was designed that is suitable for grinders, lathes, pipethreading machines etc. Development of 72,000 and 96,000 r.p.m. internal grinding heads on aerodynamic bearings continued; the possibility of creating a 50,000-100,000 r.p.m. head design (with compressed air driving a turbine and "lubricating" the bearings) was examined. Work continued on numerical program control systems for machine tools. The pilot units of a gear milling and a gear grinding machine with synchronous pulse shafts and electronic controls replacing the machine apron were successfully tested. Mechanical stepless velocity variators were further developed. New variators included βP -1 (VR-1) and βP -3 (VR-3) types with mobile discs and wide V-belt; notched belts were tested. They work noiselessly, without vibration and at a constant speed. ENIMS and other organizations worked on different mechanical vairators. A review of Soviet and foreign handling devices was made to provide aid to designers. Standardized resettable auto-

Card 2/7

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387

Scientific research work ...

S/121/61/000/005/001/005 D040/D112

matic lines for machining general-use machine parts were designed, e.g. a line for double-rim gears (Fig. 1); a line for end mill shanks and pipe fittings (Fig. 2); a semi-automatic vertical lathe series for the use in lines and separately; an electro-mechanical deburring machine; a series of bevel gear cutters. 3) Machining methods, technology. This included electric and ultrasonic machining. Data for designing heavy electric-pulse machines were obtained in experiments. Khar'kovskiy politekhnicheskiy institut (Khar!kov Polytechnic Institute) designed a new unipolar pulse generator for ENIMS which raises the metal removal rate to 11,000 mm³/min, more than double what was possible before. A tool feed control system was developed for automation of universal electric-pulse machines; it raised the work productivity 10-15%, and one operator can operate several machines. Combinations of ultrasonic working with various mechanical motions of the workpiece were investigated and suggestions made for conversion of screw machines into ultrasonic machines for machining round bodies, profile machining and cutt-off operations. The "4770A" ultrasonic cutting machine and the "4773" ultrasonic broaching machine were designed for extensive use in industry. 4) Accuracy. The causes of inaccurate work of circular grinders were studied and analogous investigations started with other machine tool types.

Card 3/7

Scientific research work ...

S/121/61/000/005/001/005 D040/D112

raised to the level of CU28-48 (SCh 28-48) iron by treating liquid supola metal with ferromolybdenum in combination with ferrotitanium. Residual stress relief by vibration of eastings and simultaneous impregnation of steel surface with silicon and carbon was studied. Liquid case hardening with ultrasound effect was tried, and the result was twice faster hardening, economy of silicon carbide (6% was needed instead of 10%) and about 1.5 times lower cost. 6) Modernization. Data on modernization of 13,000 obsolete machine tools at 400 plants were processed and recommendations issued. 7) Standardization. Data of static rigidity investigations of past years (with methods and measuring instruments developed at ENIMS) were completed; and standardization of rigidity requirements was continued. A standardization plan for component units of unit-head machine tools and draft standards for dimensions of various machine tools were prepared. There are 8 figures.

Card 5/7

PADOQIN, A.A. Conference of mechanical engineers. Stan.i instr. 32 no.10:41-42 (MIRA 14:9) (Mechanical engineering)

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s/121/62/000/006/003/011 DO40/D113

AUTHOR:

Padogin, A.A.

TITLE:

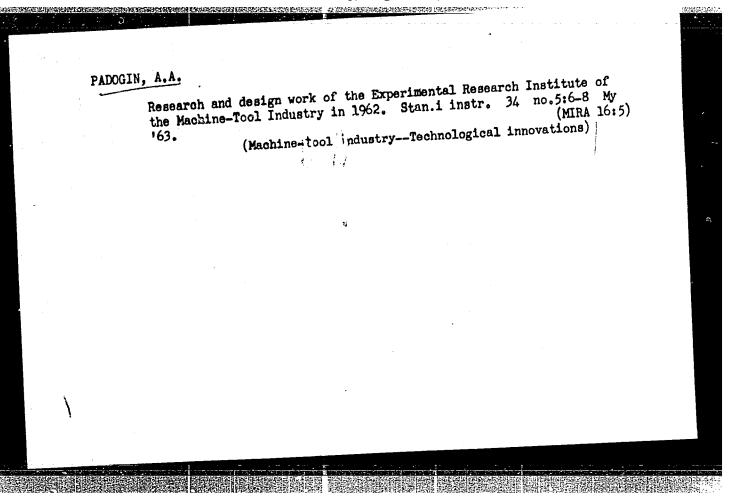
The most important works of ENIMS completed in 1961

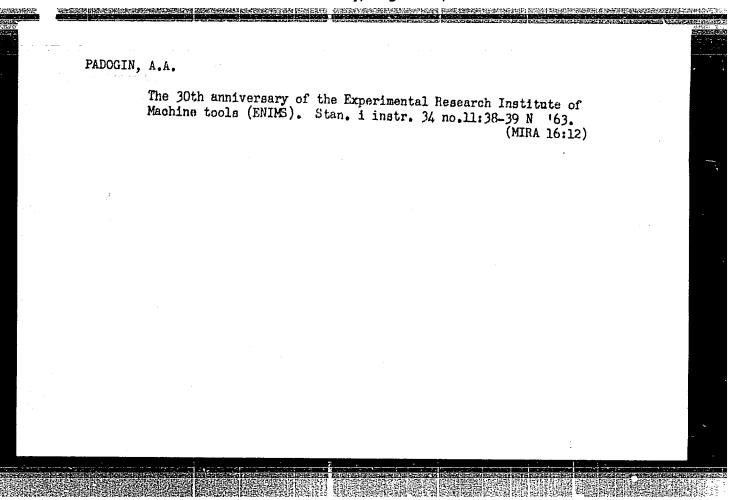
PERIODICAL:

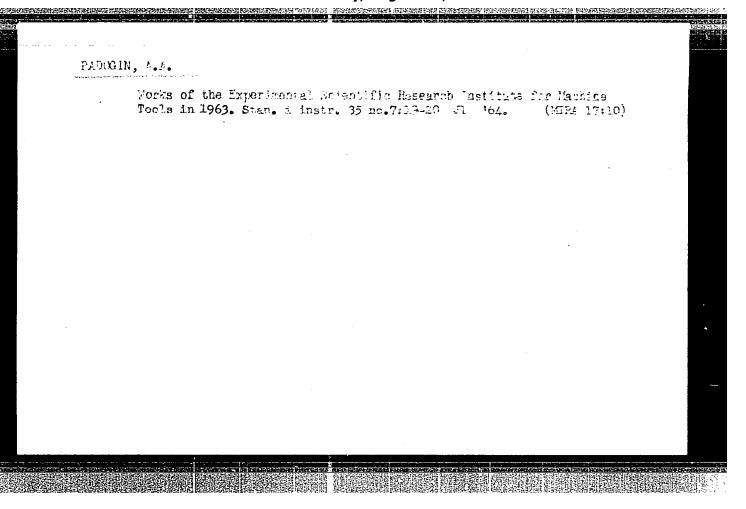
Stanki i instrument, no. 6, 1962, 6-8

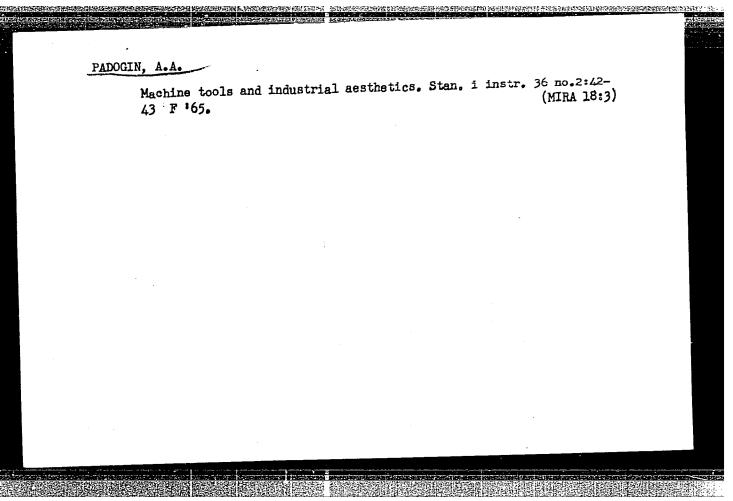
Research conducted by ENING in 1961, dealt with the following: Standardization of transfer machine lines and machines for such lines to be produced during 1962-1965; standard types of special machine tools for steam and gas turbine blades, and of unit-head machine units to be produced by specialized plants; the development of the machine tool industry in the U.S., and West-European countries; designing of a program controlled transfer machine line for shafts, 15-50 mm in diameter and 100-400 mm long; a quickly-resettable automatic transfer line for machining two-diameter gear clusters of 4 different dimensions; a range of 5 universal copying and program-controlled machine tools, the elements of which are 92% the same; a range of program-controlled coordinate tables for radial drilling machines; a range of electric drives with magnetic and silicon amplifiers, and 3 types of step-by-step motors;

Card 1/2









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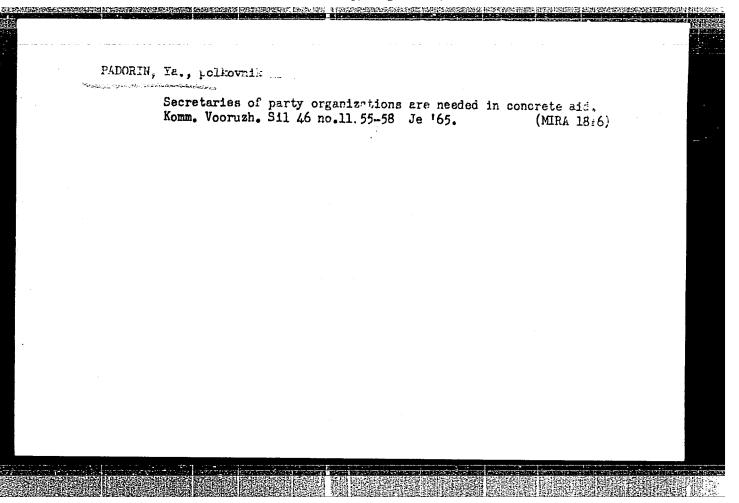
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ZELENTSOV, A.A., polkovnik; PADORIN, Ya.A., polkovnik; CHEBUSHEV, I.V., polkovnik, red.; MEDCHIKOVA, A.N., tekhn.red.

[Party organizations in army units and war vessels; collected articles on the work experience of local party organizations]
Partiinaia organizatsiia chasti, korablia; abornik statei ob opyte raboty pervichnykh partorganizatsii. Moskva, Voen.izd-vo M-va obor.SSSR, 1960. 334 p. (MIRA 13:4)

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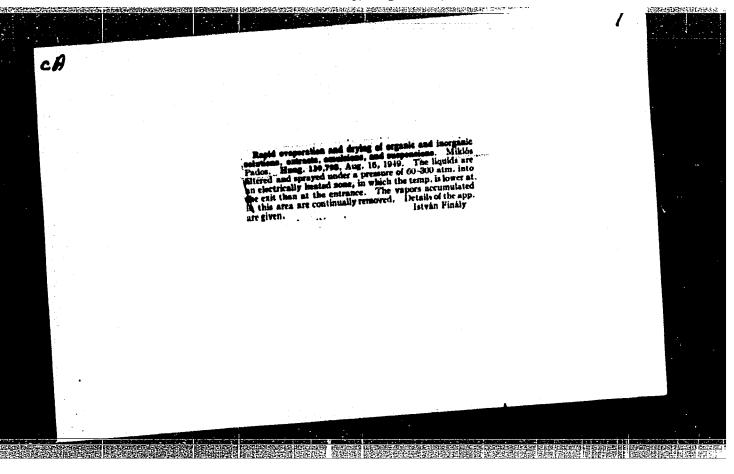
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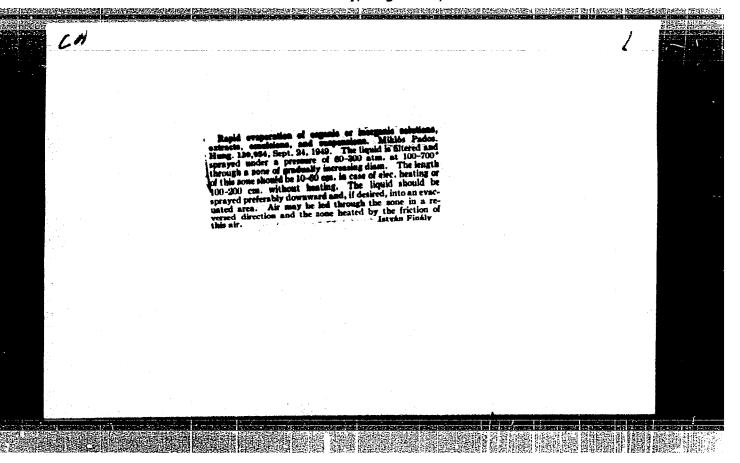
1. Pecsi Orvostudomanyi Egyetem, Gyermekklinika (igazgato: Kerpel-Fronius, Odon, dr.).

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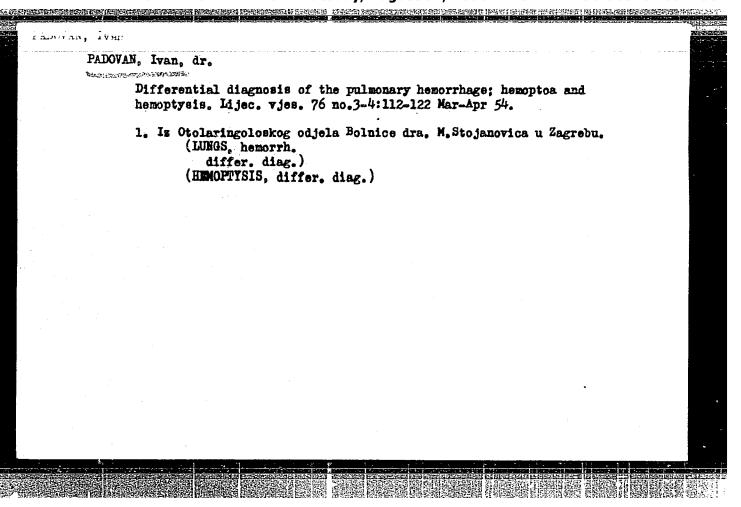
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