### CIA-RDP86-00513R000928210005-4

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KUZNETSOV, V.I. 73-2-20/22 AUTHORS: Fadeicheva A.G. and Kuznetsov V.I. Complex utilisation of lignites of the Ukrainian RSS. XVII: Phenols of primary lignite tars of the Ukrainian RSS. TITLE: (Kompleksnoye ispol'zovannye burykh ugley USSR. XVII:Fenoly pervichnoy smoly burykh ugley USSR). PERIODICAL: "Ukrainskiy Khimicheskiy Zhurnal" (Ukrainian Journal of Chemistry), Vol.23, No.2, March-April, 1957, pp.266-271 (USSR). ABSTRACT: Tars obtained by semi-coking of bituminous lignites of the Ukraine contain up to 9 to 10% phenols. Hitherto no data have been available on the composition of phenols obtained by the low-carbonisation of tars. To obtain these data phenols were prepared from fractions of lignite tar, i.e. from petroleum, petroleum naphtha and paraffin oils. The fractions were treated with a 10% H\_SO<sub>4</sub> solution and a 5% solution of calcium bicarbonate to extract the carboxylic acids. Phenols were extracted from the fractions with a 13% solution of sodium hydroxide at 18 to 20 C. The obtained phenolates were purified and decomposed with a 20%  $H_2SO_4$  solution. The extracted tar is Card 1/3soluble in acetone, ethyl alcohol and insoluble in benzene, APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210005-4"

#### 73-2-20/22

Complex utilisation of lignites of the Ukrainian RSS. XVII: Phenols of primary lignite tars of the Ukrainian RSS. (Cont.)

petroleum and petroleum ether. The most valuable components were shown to occur in the first three fractions and represent 7.2% of the weight of the tar. The lower phenol content is 3.8% (Table 1). The content of sulphurcontaining compounds in the phenols increases with increasing boiling point of the fractions. The crude phenols separated from the individual fractions contained solid phenols (or so called acid asphaltenes), which are insoluble in petroleum ether. Phenols of the paraffin contain 50% solid phenols. The latter are completely soluble in ether, benzene, alcohol and aqueous alkalis. The crude phenols were rectified at 20 mm HG pressure. The phenols of the benzene and ligroine fractions consist mainly of phenol and cresols. The kerosene and paraffin fractions contained a considerable quantity of xylenol and high-

boiling phenols (Tables 2, 3, 5 and 6). Liquid phenols of the paraffin fraction contain mostly high-boiling phenols which are difficult to distil. Fractions of phenols

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73-2-20/22 Complex utilisation of lignites of the Ukrainian R88. XVII: Phenols of primary lignite tars of the Ukrainian RSS. (Cont.) boiling between 204-226 C were separated into 3 fractions. Data tabulated in Table 4 show that the xylenol fractions contained considerable quantities of cresols (1, 3, 5xylenol and 1, 4, 2-xylenol). There are 6 tables and 5 references, 2 of which are Slavic. ASSOCIATION: Institute of Thermal Power, Academy of Sciences, USSR (Institut Teploenergetiki AN USSR). SUBMITTED: July 30, 1956'. AVAILABLE: Library of Congress Card 3/3

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٢	AUTHOR:	Kuznetsov, V. I., and Fadeicheva, A. G. 73-3-22/24
		A. G.
	TITLE :	fication of Primary Tar Phenols of Ukrainian Lignites, XVIII. The Puri- Neutral Oils and Sulphur Compounds. (Kompleksnoye Ispol' zovaniye Burykh Ugley USSR. XVIII. K Voprosu Ochistki Fenolov Pervichnoy Smoly Burykh Ugley USSR ot Neytral'nykh Masel i Sernistykh Soyedineniy)
		CAL: Ukrainskiy Khimicheskiy Zhurnal, 1957, Vol. 23, No.3, pp. 406-410 (USSR)
С	ABSTRAC	T: The purification of phenols, obtained from tars by thermal decomposition, is very important for industry. They have to be purified from neutral oils and sulphur compounds. A method for separating these oils by using superheated steam gave satisfactory results and can be recommended for indus- trial purposes. It makes it possible to obtain phenols with 2.4 - 4.8% neutral oils which give suitable materials for plastics. The phenolates were prepared by treating separate fractions of primary tar with a 13% NaOH solution. These phenolates contain varying amounts of neutral oils, e.g. fractions boiling at 120 - 315°C contain 12.1% neutral oils, this content increases to 22.4% for fractions boiling at 360°C. The temperature of the superheated steam was 250°C as higher temperatues cause oxidation of the phenols. This
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CIA-RDP86-00513R000928210005-4

Complex Utilisation of Ukrainian Lignites. XVIII. The Purification of Primary Tar Phenols of Ukrainian Lignites from Neutral Oils and Sulphur Compounds.

method makes it possible to lower the content of neutral oils from 21% to 2.8%. Satisfactory results were obtained at a steam temperature of 200°C. The residual neutral oils constituted under these conditions 4.9% at a 100% steam con-sumption and 3.8% at a 150% steam consumption. A 84.2 - 88.1% efficiency of separation is reached; when 200% steam is used the efficiency increases to 90.7%. When superheated steam of 200°C is used a further decrease of neutral oils ensues and the efficiency of purification reaches 90.6, 91.3 and 92.6% at a corresponding steam consumption of 100, 150 and 200%. Inboratory data were confirmed with pilot plant experiments when mixtures of phenolates obtained during alkaline treatment of benzene-, ligroine- and kerosine-fractions and of paraffinic oils. Results of these experiments (Table 1) confirm the previously obtained data. The neutral oil content can be reduced considerably by extracting the phenols from very narrow fractions. The phenolates absorb to a large extent acidic and neutral oxygen-containing compounds and unsaturated hydrocarbons. Sulphur compounds of phenols can be separated during the rectification Card 2/3 of phenols by addition of a small quantity

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73-3-22/24 Complex Utilisation of Ukrainian Lignices. XVIII. The Purification of Primary Tar Phenols of Ukrainian Lignites from Neutral Oils and Sulphur Compounds. of air or by treating the phenols with reduced bog ore at 200 - 250°C. Figure 1 shows graphs of a standard distillation of a neutral oil and of a dephenolised fraction, the distribution of sulphur in tar fractions in phenols, separated from these fractions is shown in figure 2. The sulphur content in phenols was decreased to 0.25% (from 0.78%), i.e. a 70% efficiency was attained. There are 2 figures and 1 Slavic reference. SUBMITTED: July, 30, 1956. ASSOCIATION: Institute of Thermal Power, Academy of Sciences, Ukrainian SSRs (Institut Teploonorgetiki AN USSR) AVAITABLE: Library of Congress. Card 3/3 

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11(7) C. > PHASE I BOOK EXPLOITATION	<b>80V</b> /2794
' Akademiya nauk Ukrainskoy SSR. Institut teploenergetiki	
Izucheniye i kompleksnaya pererabotka smol i bitumov bury basseyna, ch. 2 (Study of Tars and Bitumens of Pnepr Their Comprehensive Conversion, Pt. 2) Kiyev, 1958. printed.	Road - Deserver
Resp. Ed.: N. M. Karavayev, Professor, Corresponding Mem Sciences; Ed. of Publishing House: T. K. Remennik; Tec	ber, USSR Academy of ch. Ed.: I. D. Milekhin.
FURPOSE: This collection of articles is intended for scie research institutes as well as for technical and engine ing problems of comprehensive utilization of solid fuel	entific workers in fuel
COVERAGE: This collection of articles on the utilization products is the result of investigations made by the In Power Engineering of the Academy of Science of the Ukra of converting tar and carbobitumens produced through th of Dneper basin brown coal is analyzed. The importance gases and products of thermal conversion of solid fuel	ainian SSR. The process the thermal decomposition
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dy of Tars and Bitumens (Cont.) 80V/2794	
production of synthetic materials is pointed out. The use of solid function as a source of heat energy and as a source of chemicals is emphasized. References accompany individual articles.	
LE OF CONTENTS:	
Hovorova, R. P. Chemical Composition of Gasoline Obtained From Tar Produced by Semi-coking	
adeicheva, A. G., and V. I. Kuznetsov. Study of Phenols Extracted From the Fraction of the Brown Coal Primary Tar	5
adeicheva, A. G. Study of the Composition of Refinary Slops Resulting From Semi-coking of Bitumenous Brown Coal and Conversion of Primary Tar	13 S
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akovetskiy, P. S. Study of Paraffinic and Naphthenic Hydrocarbons of the Intermediate Tar Fraction Produced by Semi-coking of Brown Coal	~
akovetskiy, P. S. Study of Aromatic Hydrocarbons of the Intermediate Tar Fraction Produced by Semi-coking of Brown Coal	27
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Study of Tars and Bitumens (Cont.)	BOV/2794
Makovetskiy, P. S. Determination of the a Side Chain of Aromatic Hydrocarbons Produced by Semi-coking of Brown Coal	Production
Makovetskiy, P. S. Neutral Oxygen Compou- tion Produced by Semi-coking of Brown	
Kuznetsov, V. I., and A. A. Bobrova. Bro Production by Means of Extracting Bitu	
Bobrqva, A. A., and V. I. Kuznetsov. Stu to Solvents Used in Extraction of Bro	dur of the states
Bobrova, A. A., and V. I. Kuznetsov.: Pro Brown Coal Carbobitumen	blem of Removing Tar From
Bobrova, A. A., and V. I. Kuznetsov. Pose Extracted Brown Coal	101 sibilities of Utilizing the
Kigel', T. B., and V. I. Kuznetsov Pared	112
by Semi-coking rd 3/4	122

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KUZNETSOV, Y.I.; KIGEL', T.B. Using Pyshevskii bentonites for purifying lignite paraffins. Bent. gliny Ukr. no.2:189-194 '58. (MIRA 12:12 (MIRA 12:12) 1. Institut teploenergetiki AN USSR. (Paraffins) (Bentonite) • -. .

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BOBROVA, Anfise Alekseyevne; KUZNETSOV, V.I., kand.khim.nauk, otv. red.; CHEKHOVICH, N.Ya., red.izd-va; MOZURIK, T.Ya., tekhn.red.

 [Bituminous tar from Aleksendriyskiy brown coal] Smole bitumu so leksendriis'koho buroho vugilila. Kyiv, Vyd-vo Akad.nauk URSR, 1959. 66 p. (MIRA 13:2) (Dnieper Basin--Coal tar)

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PEASE I BOOK EXPLOITATION SOV/4150 Sveehthaniye po khisia, tekhnologi i priseneniyu proisvodayan Birdiana i khinolita, Risa, 1657 i priseneniyu proisvodayan	<ul> <li>"Sponsoring Agencies: Atademiya nauk Latviyakoy SSR. Institut McLail; Teesoyuznoye Animicheskoye obahchestvo.</li> <li>"Mu.: 5. Barhanove: Tech. Ed.: A. Klywinys; Kittoris; Burd: Tu. A. Bankowskiy, Gundidate of Chemistry (Reso. Zi). L. F. Zahukaww</li> </ul>	Dector of Chemistry, and M. M. Hainyn'. FUHUUL: This book is intended for organic chemists and chemical engineers. CONTRACE: The soliceton contains 33 urities on methods of synthesizing of producing printae, quincing, and their derivatives from natural sources. We prisonalities the articles. Figure, tables, and references accompany the articles.	TABLE OF CONTINUES AND QUINILING PERTVATITES OFFICED FROM T. FINIDICE AND QUINILING PERTVALITES OFFICED FROM FILE TEAFOLL CALCED FROMOUTS OF FILLS DETERTING THE THEORY OF ALLOWED FROM AND ALLOWED FROM DETERTING THE TEAFOLD CALCED FLUE STATES OFFICED FROM DETERTING THE TEAFOLD CALCED FROM COLDINATION FROM AND ALLOWED DETERTING THE TEAFOLD CALCED FROM COLDINATION FROM AND ALLOWED DETERTION FROM AND ALTON FROM COLDINATION AND ALLOWED FROM AND ALLOWED FROM AND ALTONED FROM FROM OF ALLOWED FROM AND ALTONED FR	<pre>Margingery F.A. and S. F. Majorinery. Fraittic teplo- marginess for the haven of Kiner Fraither teplo- network of the haven of there fraither the fraither Personalizing of the teal in The Fraith haven in Personalizing of the teal in The Fraith haven Personalized of the teal in the fraither haven Personalized of the teal of the fraither haven tealed of the fraither haven fraither haven Personalized of the fraither haven fraither have the fraither of fould Hitrogen and Hitrogencus have the fraither for the fraither haven of the fraither of the fraither for the haven of the haven in the fraither haven of the haven of the haven of the fraither for her haven of the fraither of the fraither for her haven of the fraither of the fraither fraither fraither fraither for the the fraither her her haven of the fraither of the fraither fraither fraither fraither for the fraither of the fraither fraither fraither fraither for the fraither of the fraither fraither fraither fraither fraither fraither fraither fraither fraither fraither fraither fraither for the fraither of the fraither fraither fraither fraither fraither for the fraither fraither fraither fraither fraither fraither fraither for the fraither fraither fraither fraither fraither fraither fraither for the fraither fra</pre>	Could be and from the from the Cheater Processing of 13 (Could be a set of the free of the
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KUZNETSOV, V.I., kand. khim. nauk

Trends in the use of Dmieper Basin coals for industrial purposes. Kompl. vyk. pal.-energ. res. Ukr. no.1:175-180 159. (MIRA 16:7)

1. Institut teploenergetiki AN UkrSSR. (Dnieper Basin-Coal)

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SHVETS, I.T., akademik, ctv. red.; DAL', V.I., doktor tekhn. nauk, red.; SHCHEGOLEV, G.M., kand. tekhn. nauk, zam. otv. red.; OSTROVSKIY, S.B., red.; LAVROV, P.I., kand. tekhn. nauk, red.; LANDSMAN, S.U., kand. tekhn. nauk, red.; KUZNETSOV,-V.I., kand. khim. nauk, red.; SUSHON, S.P., inzh., red. DAKHNO, Yu.B., tekhn. red.

> [Complete utilization of Ukrainian solid fuels]Kompleksnoe izpol'zovanie tverdykh topliv Ukrainy. Kiev, Izd-vo AN USSR, 1962. 287 p. (MIRA 15:11)

> 1. Akademiya nauk UKSR, Kiev. Rada po vyvchenniu produktyvnykh syl URSR. 2. 2. Akademiya nauk Ukr.SSR (for Shvets). 3. Nachal'nik otdela toplivnoy prozyshlennosti Gosudarstvennogo planovogo komiteta Soveta Ministrov Ukr. SSR (for Ostrovskiy). 4. Institut teploenergetiki Akademii nauk Ukr.SSR (for Shchegolev, Sushon).

> > (Ukraine---Fuel)

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BOBROVA, A.A. [Bobrova, A.O]; KUZNETSOV, V.I.

Dynamics of the process of wax crystallization. Zbir. prats' Inst. telp. AN URSR no.25:51-55 '62.

Use of toluol and its mixtures for bitumen extractions from brown coals. Zbir. prats' Inst. tepl. AN URSR no.25:56-61 '62. (MIRA 17:1)

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	nerev, D. M.; Svetsins	kiy, V. G.; Kir'yakov, V. M.; Ku	znetsov, V. I.;	
Polikarpov, D.				
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SOURCE: Izobre	teniya, promyshlennyyo	e obraztsy, tovarnyye znaki, no.	17, 1966, 133	
		strength steel welding, ARC W		
welding of high	Author Certificate in -strength steels contained	ntroduces a ceramic flux for subm ining calcium fluoride, rutile co To improve the mechanical property ice of the flux, 5-12% quartz se	ies of welded	
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Development of Studies (Cont.)

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COVERAGE: The book, published on the 100th anniversary of the birth of A.Ye. Favorskiy, briefly outlines the development of theories of organic chemistry and emphasizes the importance of the work of the latter in developing the studies of A.M. Butlerov in the field of polymerization and isomerization. The author analyzes correlation of atoms, isomeric conversion, problems of chemical affinity, and describes the investigations of S.V. Lebedev, which led to the development of rubber synthesis and synthetic rubber production. The reaction of ketone with acetylene compounds and its application in the synthesis with various polymers is analyzed. The author also reviews the polymerization mechanism, ionic polymerization, telomerization, and the polycondensation theory. Each chapter is accompanied by references, the majority of which are Soviet. TABLE OF CONTENTS:

Introduction	
Ch. I. Butlerov's Investigations in the Field of Polymeri as the Main Source of A Ver Benerality in the Polymeri	zation
as the Main Source of A.Ye. Favorskiy's Work Bibliography	9
	29
Card 2/6	
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KUZNETSOV, Vladimir Ivanovich; ARBUZOV, A.Ye., akademik, ouv. red.; PO-VAROV, L.S., red. izd-va; GUSEVA, A.P., tekhn. red.; MAKOGONOVA, I.A., tekhn. red.

> [Origin and development of the chemistry of alicyclic compounds] Vozniknovenie khimii alitsiklicheskikh soedinenii. Moskva, Izd-vo Akad. nauk SSSR, 1961. 185 p. (MIRA 14:11) (Alicyclic compounds)

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KUZNETSOV, V.I., doktor khimich.nauk
Contemporary methods of identification of organic compounds.
Zhur. VKHO 9 no. 2:177-186 '64. (MIRA 17:9)

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•	KUZNETSOV, V. I.; SKOBELEV, N. K.; FLEROV, G. N.	
f-	"Observation of a Spontaneously Fissionable Isomer with $T_2^1 = 2.6$ min in the Nuclear Reactions $U^{233} + B^{11}$ and $U^{233} + B^{10}$ "	
	Moscow, Yadernaya Fizika; July, 1966; pp 99-101	
	ABSTRACT: In the nuclear reactions $U^{100} + B^{10}$ and $U^{200} + B^{11}$ a spontaneously fission- able product with $T_{1/2} = 2.6 \pm 0.2$ min was observed. The excitation function of this product in the reaction $U^{100} + B^{11}$ was investigated. The maximum production cross section was found to be of the order $2 \cdot 10^{-10}$ cm <sup>3</sup> . The conclusion was drawn that the Am nucleus or that of another lighter element with mass number $A < 236$ undergoes a spontaneous fission with $T_2^4 = 2.6$ min. The experiments were per- formed on the internal beam of the U-300 cyclotron of the Joint Institute for Nuclear Research. The authors thank K. A. Gavrilov and coworkers of his group for preparation of the targets, B. V. Shchitov for helping with the work, S. M. Polikanov and V. A. Druin for useful advice during the carrying out of experiments and for valuable discussion, and S. P. Trot'yakova and T. I. Rubakova, who carried out much work on the processing of the detectors. Orig. art. has: 2 figures. [Based on authors' Eng. abst.] [JPRS: 37,330]	
	ORG: Joint Institute for Nuclear Research (Ob"yedinnyy institut yadernykh issledovanniy) TOPIC TAGS: muclear reaction, isomer, cyclotron SUB CODE: 20 / SUBM DATE: 27Dec65 / ORIG REF: 002	
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KUZNETSOV, V. I., CAND BIO SCI, THE IMPORTANCE OF ABO-NASUM INTEROCEPTORS AND THE SMALL INTESTINE SECTION IN THE DEVELOPMENT OF ALLERGIC REACTION OIN SHEEP. SARATOV, 1961. (SARATON URDER OF LABOR RED BANNER STATE UNIV IN N. G. CHER-NYSHEVSKIY). (KL, 2-61, 204).

-82-

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ACC NR: A	P6013926	(A)	SOURCE CODE	: UR/0207	/66/000/002,	/0090/0096
AUTHOR: K	uznetsov, V.	I. (Moscow); Lyak	hov, G. H. (Mos	scow)	· · ·	BR
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		vestigation of the	e interaction 1	between she	ock waves a	nd barriers
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SOURCE: Z	hurnal prikla	dnoy mekhaniki i	tekhnicheskoy :	Fiziki, no.	. 2, 1966, 9	90-96
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ABSTRACT: wave and a lem of thi sures and in soils w the curve conforms t ponent ide the load o mental mea	Data are giv moving barri s interaction plastic at lo ith and witho for the dynam o the equatio al liquid at n the barrier surements. Th s. Orig. art 20/ SUB	Her VY	ts on the inter An approximate soil to be non s type of model on. Experiment y of the soil a ter-saturated than 15-20.10 ch agreed satis teful to S. D. , 23 formulas.	raction beta solution linearly el i is applid ts are cond and it is a soil consid 5 N/m <sup>2</sup> . The sfactorily Mizyakin	tween a plan is given for lastic at his cable to sho ducted to do shown that to dered as a to he expression with direct	ne shock or the prob igh pres- ock waves etermine this curve three-com- ons for t experi- part in the

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ACC NR: AP6013927 SOURCE CODE: UR/0207/66/000/002/0096/0099 AUTHOR: Kuznetsov, V. I. (Moscow): Lyakhov, G. M. (Moscow)	
ORG: none	
TITLE: Interaction between a wall and waves from a one-dimensional ges detonation with long and negligibly short periods of ignition induction	
SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 2, 1966, 96-99 TOPIC TAGS: gas detonation, detonation wave, wave mechanics, shock wave reflection	
ABSTRACT: The authors consider collision between an absolutely rigid wall and a <u>plane shock front</u> propagating in a reactive medium. It is assumed that the reflection is a detonation wave propagating in an explosive gas mixture treated as an ideal gas which is compressed by the precussion but has not yet reacted. This case is possible when the period of the ignition induction in the incident wave is much longer than that in the reflected detonation wave. A theoretical formula is derived for the ra-	
tio between the velocities of the reflected and incident waves, assuming that there is no chemical reaction in the gas for a definite period of time during propagation of the incident wave. A second limiting case is considered where it is assumed that the entire region of the compressed gas in the detonation wave is completely filled with detonation products immediately after incidence of the wave front against the wall.	
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Alternative and the state of th	tsov, V. I.; Ofitserov, G. M.	4. E	3
RG: none		/~	
ITLE: Biax m	agnetic logical element. <sup>16</sup> Class	42. No. 179088	
	eteniva, promyshlennyva obrazes		
OPIC TAGS: 1 ore storage,	ogic element, computer circuit, biax	computer storage, mag	netic
BSTRACT. The		* · · · · · · · · · · · · · · · · · · ·	
Sorutor, THE	proposed biax magnetic logical	element (see figure)	-
erform INHIBI	proposed biax magnetic logical out windings, output windings, and EXCLUSIVE OF operations	and a gate winding. To	0
erform INHIBI laced in both	and EXCLUSIVE OR operations,	and a gate winding. To the input windings are	5 e - 1
erform INHIBI laced in both	JUL VINGINOG, ANPRAS STANDIANS	and a gate winding. To the input windings are same direction in one r. Orig. art. has: 1 figure	14 L
erform INHIBI laced in both	and EXCLUSIVE OR operations,	and a gate winding. To the input windings are same direction in one r. Orig. art. has: 1 figure	• • • •
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erform INHIBI laced in both	and EXCLUSIVE OR operations,	and a gate winding. To the input windings are same direction in one r. Orig. art. has: 1 figure	• • •

### CIA-RDP86-00513R000928210005-4



. KUZNETSOV, V.I. (Irkutak) Apply new higher standards in the maintenance and repair of cars. Zhel. dor. transp. 47 no. 11:40-45 N '65 (MIRA 19:1) 1. Nachal 'nik sluzhby vagonnogo khozyaystva Vostochno-Sibirskoy dorogi. CIA-RDP86-00513R000928210005-4"

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CIA-RDP86-00513R000928210005-4

ACCESSION NR: AR3004181 s/0271/63/000/005/B042/B042 SOURCE: RZh. Avtomatika, telemekhanika i vy\*chisl. tekhnika, Abs. 5B211 AUTHOR: Kurbakov, K. I., Kugnetsov, V. I. TITLE: Industrial magnetic (ferrite) elements CITED SOURCE: Sb. Vy\*chisl. i inform. tekhnika. M., 1962, 91-112 TOPIC TAGS: ferrite element, logical element, computer element TRANSLATION: The authors investigate the three-cycle logical elements "P", "M-12", "G", "I", "R", "Z", and "T" from ferrites and semiconductor diodes used in digital computers and automation devices. The elements are constructed of ferrite K-272 cores 4 x 2.5 x 1.2 mm. An exception to this is the "G" type which in addition to the K-272 core also has one of oxifer  $\mathcal{M}$ -1000. The coupling circuit contains inexpensive miniature (d = 7.2 mm) selenium diodes. The reliability of the cores decreases with an increase in temperature. Consequently, each element contains a working and a compensating core. Elements are either simple or complex. A simple or amplifying magnetic element is made Card 1/3

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ange en la d		· · · · · · · · · · · · · · · · · · ·
141 CALCULATION		
	ACCESSION NR: AR3004181	
	of magnetic cores having rectangular hysteres whose power supply consists of current pulses logical magnetic element is a device similar able to perform logical operations according input. The presence of a signal at the eleme of its circuit. Simple elements are distingu- their purpose, while complex elements differ perform. "P" and "M-12" elements store and a time is determined by the time between the lo- time is determined by the time between the lo- time first channel and the trailing edge of th The output pulse from the "M-12" can magnetic "G" element generates a continuous sequence period of the source of feed pulses. The fi- supply is switched off. All complex elements blocking occurs in the second channel. The "AND-AND" coincidence operation, element "R" tion, "Z" does the blocking, while the element dynamic triggering. The load capability of such that each of them when operating from a	to the simple element but it is to the signals applied to its ent's output depends on the logic uished by their load capacity and according to the operation they amplify signals. The storage eading edge of the cycle pulse of he pulse in the third channel. ze up to 12 "P" elements. The of units mutually delayed by 1 ow of units stops when the power s have blocking windings. The "I" element is used for the logical performs the nonequality opera- int "I" works on the principle of "G". "I". "R". "Z", and "T" is

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 </ e acase JERGITTED: 2650v63 SUB CODE: DP ENCLI 01 NO REP BOV : 000 · OTHER 1 000 Cord 1/2 . .... 

ACC NRI AP7008933 SOURCE CODE: UR/0367/66/004/003/0465/0467 AUTHOR: Kuznetsov, V. I.; Lobanov, Yu. V.; Perelygin, V. P. ORG: Joint Institute for Nuclear Research (Ob"yodinennyy institut yadernykh issledovaniy) TITLE: Half-life of isotope of element 102 with mass number 256 SOURCE: Yadernaya fizika, v. 4, no. 3, 1966, 465-467 TOPIC TAGS: ion acceleration, cyclotron, radioisotope, alpha decay SUB CODE: 20,18 ABSTRACT: In 1963, an isotope of the 102nd element of mass number 256 (Donets, Ye. D., Shchegolev, V. A., Yermakov, V. A., Atomnaya Energiya (Atomic Energy),  $\frac{1}{16}$ , 195, 1964) was synthesized in the reaction U<sup>238</sup> + Ne<sup>22</sup>. Its identification : was made with the help of physical and chemical methods according to the charactoristics of the daughter nucleus  $Fm^{252}$ . However, the measurement accuracy of the half-life of the  $102^{256}$  nucleus was no more than 40%. Experiments were performed in 1963 for studying the spontaneous fission of the nuclei formed in the  $U^{238}$  + Ne<sup>22</sup> reaction (Druin, V. A., Skobelev, N. K., Fefilov, B. V., Flerov, G. N., Preprint P-1580, OIYaI, 1964). The half-life  $T_{i} = 10+$  seconds measured in this paper coincided, within the limits of error, with that obtained for isotope  $102^{250}$  in the paper of the first paragraph above. The yield of this spontaneously fissioning nucleus corresponded to the maximum cross section  $3\cdot10^{-34}$  cm<sup>2</sup>. From the character of the excitation function, it may be concluded that the reaction in this case is  $U^{238}(N_{0}^{-22},4n)102^{256}$ . The Card (1/5 0929 1759

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可当他的政府的职能。而 ACC NRI AP7008933 absence of the effect in the controlled irradiation of the  $U^{2,38}$  target by  $No^{20}$ ? and 016 ions has permitted it to be finally established that the 102256 nucleus undergoes its spontaneous fission in a 10-second period. From the relationship of the alpha decay and the spontaneous fission of this nucleus, the period of the spontaneous fission was found to be  $T_f \approx 1500$  sec. The experiments described in the present paper were undertaken with a view to measuring more accurately the half-life of the isotope of the 102nd element with mass number 256. The experiments were conducted with the internal beam of a U-300 OIYaI cyclotron. A schematic diagram of the equipment was given in a previous paper (Lobanov, Yu. V., Kuznotsov, V. I., Polikanov, S. N., Oganesyan, Yu. Ts., Flerov, G. N.; Ya F. 1, 67, 1965). The beam of accelerated ions passed through an aluminum foil 6 microns thick, dividing the inner space of the equipment from the cyclotron vacuum chamber, and fell on the target turned by the active layer on the ion collector side. The nucleus formed as the result of the interaction between the accelerated ions and the target broke away from the target under the impact of the incident particle and fell on the collector, a continuous nickel strip 8 m long and 25 mm wide. In the experiments, the film moved at a velocity of 6-10 cm/sec. This provided optimum conditions for measuring a half-life on the order of 10 seconds. For cooling the target, the ion collector, and the nucleus collector the inner space of the equipment was filled with holium under a pressure of 40 mm of mercury. 2/5 Card

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	eriments, we used a U2 ubstrato; the bombardir intensity of the ion bo		get about 600 p accelerated	$\mu_7/cm^2$ on a No <sup>22</sup> and	
A., Porolygin, V Price, P. B., Sc	osphorescent glasses an os, were used as detect . P., Tret'yakova, S. Dience, 140, 1221, 1963 cally continuously, th	P., PTE, 5, 64,	ion fragments 1964: Floisch	(Xapustsik,	
recorded output	diation of the U <sup>238</sup> ta of the spontaneously f nds corresponded to a				
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AP7008933 ACC NRI Experiments with plutonium targets were made with the energy of the oxygen ions ranging from 89 to 104 Kev and a film velocity of 6.6 cm/sec. A figure shows the yield of the fission products as a function of the energy and shows that the short-lived component has a curve which agrees nicely with the 4n reaction curve. The maximum yield was recorded when the oxygen ion energy was 94 Mev, which corresponds to the partial cross section  $7 \cdot 10^{-34}$  cm<sup>2</sup>. For the reaction Pu<sup>242</sup>(0<sup>18</sup>, p<sub>3</sub>n)101256, a somewhat larger cross section of  $9.0 \cdot 10^{-34}$  was obtained for an 0<sup>18</sup> ion energy of 104 Mev. Thus, in the experiments involving the irradiation of plutonium targets with accelerated  $0^{18}$  ions two products of spontaneous fission with different half-lives were recorded. The short-lived component, whose excitation function corresponds to the 4n reaction, was apparently caused by the spontaneous fission of the 102nd element of mass number 256. Another figure shows the distribution of the recorded fragments of the short-lived component in equal time intervals for one series of experiments. The half-life of the 102nd element nucleus was, according to our measurements,  $T_1 = 8.2 \pm 1.0$  seconds. This period was chiefly the result of the alpha decay of the 102256 nucleus; it agrees well with previous results (see the first two papers cited above). The half-life period of ~3 sec predicted in the paper (Viola, V. E., Seaborg, O. T., Nuclear Systematics for Heavy Elements, N. Y., 1965) agrees satisfactorily with our data. Card 4/5 建調測語

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CC NR: AT6036655	SOURCE CODE: UN/0000/66/000/000/0282/0283 -
AUTHOR: Mozzhukhin, A. S.; Kuzne Goryachev, I. A.; Solatsev, S. A.	etsov, V. I.; Kushakovskaya, M. S.; Makhalova, O.K; .; Shostak, V. I.; Kudrin, I. D.
ORG: none	
	e drugs on the functional condition of the human Conference on Problems of Space Medicine held in
	mam kosmicheskoy moditsiny, 1966. Problemy ms of space medicine); materialy konferentsii,
	n, space pharmacology, cosmic radiation biologic medicine, motion sickness
was studied (on the the basis of t hundred heathy volunteers were u cystamine was established as a de cation, or 0.8 units every 6 hr fo	e functional condition of the human organism he hypothesis of A. V. Lebedinskiy). Five sed. The maximum permissible dose of ose of 1.2 [units not given] per single appli- r 24 hr, or 0.6-0.8 units once a day for a hine in the doses indicated did not cause apacity, hematopoiesis, or in cardiovascu-

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C	AUTHOR: Gorbunov, V. I.; Kuznetsov, V. I.; Kuleshov, V. K.; 51 Yankelevich, Yu. B.	
	TITLE: Spectrometric methods for flaw detection in materials	
	SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 5B49 REF SOURCE: Izv. Tomskogo politekhn. in-ta, v. 138, 1965, 20-30	
	TOPIC TAGS: spectrometry, flaw detection spectrometry, retardation spectrometry, gamma radiation spectrometry, gamma detection, brems- strahlung	e
	ABSTRACT: The value of bremsstrahlung and gamma radiation spectrometry in practical use in flaw detection is outlined. An analysis of spectral emissions obtained back of absorbers of different thickness and density and an analysis of instrumental spectra allows a correct approach to the problem of optimal conditions for radioscopy of materials and prod- ucts and thus considerably expand the control potentialities of flaw detection spectrometry. Orig. art. has: 8 figures and a bibliography of 12 reference items. L. Tsukerman. [Translation of abstract.] [AM]	
	SUB CODE: 20, 14, 11/	
-	Card 1/1 hs UDC: 620.179.1	1

KUZHATSOV, V. I.

Agriculture Machinery - Trade and Manufacture

"Increasing efficiency in agricultural machinery factories; collection of suggestions incorporated into production." V. I. Kuznetsov, ed. Eng. P. A. Korchagin, Sel'Khozmashina, No. 4, 1952.

9. Monthly List of Hussian Accessions, Library of Congress, August 1952, UNCL.

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KUZNETSOV, V, I.	(Prof)		
"1949	Achievements in Soviet Science and Technology," Moscow, 19	50	. •
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KUZNETSOV,	V.I.	
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The Committee on Statin Prizes (of the Joursil of Ministers (NOR) in the fields of prince and inventions announces that the following actentific vorus, popular actentills wooks, and textwooks have been submitted for competition for Stails Frizes for the years and 1953. (Boueteraya Kultura, Moscow, Mr. 30-60, Co Feb - 3 Apr 1994)

AP2	Title of Horn	Messerted	
Kuznetsov, V.I.	"Elastic Foundation"	Moscow Evening Ma ing Institute	chine Build-
80% N-30504, 7 July 195	1		
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# HIZ HISOV. V.I.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the rieids of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Bovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

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Name Darkov, A. V. Kuznetsov, V. I.	Title of Work "Statics of Structures" (textbook, hih edition)	Nominated by All-Union Correspondence Polytechnic Institute	3
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80: W-30604, 7 July 1954		N THE REAL PROPERTY AND	




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KUZNETSOV,	<b>∀. 1.</b>	· · · · · · · · · · · · · · · · · · ·
USSR/Physics		
Card 1/1		
Author	: Kuznetsov, V. I., Dr. of Technical Sciences, Prof.	
Titlo	: Science of tenacity	
Poriodical	: Nauka i Zhizn' 21/2, 23-25, Fob/1954	
Abstract	The aim in machine construction is to reduce weight and ret. The weight per horse power of an airplane engine has gone d 20 kilos to 0.3 kilos. The author goes into the question o and the direction of strains, the study of which enables th to give such a shape to a part as will counteract them. Wh cal calculations are not possible experiment is resorded to of conducting such experiments are explained.	own from f elasticity e engineer ere theoreti-
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### CIA-RDP86-00513R000928210005-4

DARKOV, Anatoliy Vladimirovich, professor, doktor tekhnicheskikh nauk; KUZNETSOV, Vasiliy Ivanovich, professor, doktor tekhnicheskikh nauk; SHPIRO, G.S., kandidat tekhnicheskikh nauk, redaktor; VERINA, G.P., tekhnicheskiy redaktor [Structural mechanics; the statics of structures] Stroitel'naia mekhanika; statika sooruzhenii. Izd. 5-ce, perer. Moskva, Gos. (MIRA 9:11) transp. shel-dor. isd-vo, 1956. 492 p. (Statics) (Structures, Theory of) APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210005-4 三、中国和美国

CIA-RDP86-00513R000928210005-4

KUZHETSON U.T.

SOV/124-58-5-5909

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 137 (USSR)

AUTHOR: Kuznetsov, V.I.

TITLE: Application of the Method of Initial Parameters to the Calculation of Beams on an Elastic Isotropic Foundation (Primeneniye metoda nachal'nykh parametrov k raschetu balok na uprugom izotropnom osnovanii)

- PERIODICAL: V sb.: Issledovaniya po teorii sooruzheniy. Nr 7, Moscow, Gosstroyizdat, 1957, pp 167-185
- ABSTRACT: The well-known method of the initial parameter is described as applied to a design calculation of a support in the form of an elastic semispace. A beam with a planwise rectangular support (with sides equal to 2a and 2b, with a > b) is investigated under 3 different types of load. The load distribution is as follows: 1) a concentrated load applied at the center of the beam and at any arbitrary point, 2) two concentrated loads applied symmetrically relative to the center of the beam, and 3) a continuously distributed load. Numerical results are given for the solutions of some specific problems.
- Card 1/1 1. Beams--Load distribution 2. Beams-- P.I. Klubin Mathematical analysis

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DARKOV, Anatoliy Vladimirovich; KUZNETSOV, Vasiliy Ivanovich; Prinimali anatolly viadimirovidn; <u>NUZNETSOV</u>, vabiliy ivanovidn; Frinimali uchastiye: SINEL'NIKOV, V.V., doktor tekhn. nauk, prof.; **LIEYN**, G.K., doktor tekhn. nauk, prof.; SHPIRO, G.S., kand. tekhn. nauk; BYCHLOV, D.V., prof., retsenzent; REKACH, V.G., prof., retsenzent; BOCHAROVA, Yu.F., red. izd-va; GOROKHOVA, S.S., tekhn. red. [Structural mechanics; statics structures] Stroitel'naia mekhanika;

statika sooruzhenii. Moskva, Vysshaia shkola, 1962. 742 p. (MIRA 16:5)

(Strains and stresses)

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2. 《中國國語



APPROVED FOR RELEASE: 06/19/2000

SOV-90-58-10-2/9 Kuznetsov, V.I., Korkin, Yu.M. AUTHORS: Some Direct-Current Electric-Drive Systems for Geological-TITLE: Prospecting Drills (Nekotoryyeskhemy electroprivoda postoyannogo toka geologorazvedochnykh burovykh stankov) Energeticheskiy byulleten', 1958, Nr 10, pp 3 - 8 (USSR) PERIODICAL: The authors state that there is a tendency to use direct-**ABSTRACT:** current systems in branches connected with oil-drilling. They say that this tendency, and the fact that an electric drive such as a motor-generator set allows the rotor and the winch to work flexibly and steadily, has been taken into account by the design office of the plant imeni Vorovsky in their new drill type ZIV-2000E for geological prospecting-well-drilling to a depth of 2,000 meters. This is the first time that a direct current system combined with an individual drive for the rotor and winch has been used in the building of machines for geological prospecting. The drill consists of a rotor with a PN-400 electric motor 65 kw, independent excitation), a planetary winch, a 3-speed gearbox and a DK-104G traction motor of 72 kw. The electric motors of the rotor and the winch are driven by a P-101 generator (100 kw, independent excitation). This Card 1/3

APPROVED FOR RELEASE: 06/19/2000

SOV-90-58-10-2/9 Some Direct-Current Electric-Drive Systems for Geological-Prospecting Drills

> generator, the sludge pump and the synchro-generator for auxiliary needs are driven by a U1D6-50 diesel of 150 hp. This system allows the power of the diesel to be more fully exploited. During hoisting operations, the entire power of the diesel is consumed by the electric motor of the winch, when boring - by the rotor, the sludge pump and the other auxiliary mechanisms. The authors then give a detailed description, illustrated by graphs and fomulae, of how to find the most efficient gear-ratio for the gear-box. However, there are certain disadvantages in the use of a gear-box alone, and so the authom suggest that it is worth while studying various electric system, of achieving a stepless, automatic changing of the speed of raising the columns of boring tubes. There is only one way of making the mechanical characteristic curve of an electric motor close to the hyperbolic; by varying the tension either on the terminals or of the motor's magnetic current. The authom discuss

Card 2/3

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國的調整

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Some Direct-Current Electric-Drive Systems for Geological-Prospecting Drills several methods of regulating the rotation of the motor, and comes to the conclusion that the most flexible is one employing a dynamoelectric amplifier. There are 2 diagrams, three graphs and two Soviet references. 1. Geophysical prospecting--Equipment 2. Drilling mschines--Design 3. Generators(DC)--Performance Card 3/3

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sov/3723 PHASE I BOOK EXPLOITATION

Kuznetsov, Vladimir Ivanovich

Mekhanicheskiye vakuumnyye nasosy (Mechanical Vacuum Pumps) Moscow, Gosenergoizdat, 1959. 279 p. 10,000 copies printed.

(Title page): M.I. Men'shikov; Ed. (Inside book): V.I. Shamshur; Tech. Ed.: P.M. Asanov. Ed.

PURPOSE: This book is intended for those working with mechanical vacuum pumps for industrial and laboratory uses. Certain sections of the book may be useful to engineers and scientific workers dealing with problems of obtaining medium or high vacua.

COVERAGE: This book deals with the working principles, the operation, and the testing of mechanical oil-sealed vacuum pumps. Also described are two-rotor (mechanical-booster) vacuum pumps. A brief summary of the molecular-kinetic theory of gases is given. General concepts of vacuum technology and the laws of

Card 1/5

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Mechanical Vacuum Pumps	sov/3723
rarefied-gas flow through orifices and tubes are constructed by the types of pumps discussed include mechanical pumps and steam-jet) pumps, and cold traps. Some problem design calculation of very simple vacuum systems are cussed. The author thanks M.I. Men'shikov, I.S. Ram.L. Alashkevich, P.I. Gorokhov, G.F. Kleymenov, K. L.P. Khavkin, and A.B. Tseytlin for their suggestic are 32 references: 19 Soviet, 7 German, and 6 Engli	mps for med- n (molecular ns in the re also dis- abinovich, A. Savinskiy, ons. There
TABLE OF CONTENTS:	
Preface	3
<ul> <li>Ch. I. Elements of the Molecular-Kinetic Theory of Ga</li> <li>1. Equation of state</li> <li>2. Gas pressure</li> <li>3. Velocity of gas molecules</li> <li>4. Number of gas molecules colliding per unit surf</li> <li>5. Mean free-path length</li> <li>6. Viscosity and heat conductivity of a gas</li> <li>7. Diffusion of gases</li> </ul>	7 9 11
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TABLE OF CONTEN	7TS :			· · · · ·	
Foreword	· ·			5	
	tion of steel			29 33 46	
5. Distill	ation of alloy	components in va metal and refrac		53 63	
5. Distilu process 6. Interac	ation of alloy			53 63	
5. Distilu process 6. Interac	ation of alloy			53	

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	n de la construcción de la constru A	
Vacuum	Metallurgy	<b>307/</b> 6270
Samarin	A. M. Some Problems of Vacuum Metallurgy	267
1.	On the improvement of melting furnaces	268
2.	Vacuum induction furnaces	268
3. 4.	Vacuum arc furnaces	270
<b>4</b> .	Electron-beam furnaces	273
5.	Thermodynamics and kinetics of metallurgical	
	reactions in vacuum	274
6.	Vacuum treatment of molten steel	283
7.	Vacuum pumps	287
Lovkan	I, M. S. Special Features of the Design of	
Vacuum	Resistance Furnaces	290
	Design of some subassemblies of vacuum re-	
	sistance furnaces	291
2.	Batch-type vacuum resistance furnaces	313
3.		336
Kuznet	sov, V. I. Mechanical Pumps	340
1.	General information	340
Çard 5,	4-3/3	
	arises every submitted in the second seco	

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KUZNETSOV, V. I.	
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Planting pine in deep furrows as a means of protection against the Jun	e bug.
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9. Monthly List of Russian Accessions, Library of Congress, September	195 <b>2</b> , Uncl.
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4.	West Kazakhstan ProvinceLepidoptera	••••
7.	Problems of adjustment of lepidoptera to new feeding conditions, Trudy Zool. inst., 11, 1952.	-
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USSR/Gene:	ral	and Specialized Zoology ~ Insects. F.
Abs Jour	:	Ref Zhur - Biol., No 9, 1958, 40129
Author Inst	:	Semenov, A.E., Kuznetsov, V.I.
Title	:	The Siberian Onion Moth-Acrolopia alliella sp. n a New Onion Post on the Extreme North.
Orig Pub	:	Zool. zh., 1956, 35, No 11, 1676-1680
Abstract	:	The onion moth was described in detail and its larvae were described in short. This species is morphologically dif- ferent from A. assectella. It injures the onion, carlic and especially the wild siberian onion, which is widely distributed in the river lands of the extreme North. Mechanical and chemical methods of control are recommended. A.P. Adrianov.
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Abs Jour: Ref Zhur-Biol., No 12, 1958, 54356.

: Kuznetsov, V. I. Author Inst : AS Armenian SSR. : Two New Species of Gall-Forming Moths (Lepidoptera, Microheterocera) Causing Damage to Shrubbery in Title Orig Pub: Dokli AN ArmSSR; 1957; 25, No 1, 43-48.

Abstract: This is a description and 6 drawings of Augasma atraphaxidellum sp. n. and Ascalenia grisella sp. n. Information on the biology of these species,

Card 1/1

KUZNETSOU, V.I. USSR/General and Special Zoology. Insects. Injurious Insocts and Ticks. Posts of Fruit and Berry Crops  $\mathbf{P}$ Abs Jour : Rof Zhur - Biol., No 11, 1958, No 49640 Author : Kuznotsov V.I. Inst : = Titlo : The Biology and Species of the Pyralid Loaf-Rellor Moths of the Genus Euzophera Z. Damaging the Ponogranato, the Apple Tree and the Quince Orig Pub : Entonol. obozroniyo, 1957, 36, No 1, 59-71 Abstract : E. punicaolla larvae winter under the bark of skolotonized branches and in the poel of the ponogranato's fruit; they pupate at the end of April or the beginning of May. The moths emerge in the first 10 days of May and deposit their eggs in the pomogranate bark, where the first generation of larvao dovelops in the bast in May-June. The emorging noths deposit their oggs on the bark and on the fruits of ponogranate and apple tracs. Card : 1/2 In

ARPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210005-4 and Pocial Zoology. Insects. Injurious InsectsP and Ticks. Postsof Fruit and Borry Crops

Abs Jour : Raf Zhur - Biol., No 11, 1958, No 49640

the fruits of the penegranate, two or three genorations develop. It was established that the moths of the penegranate leaf-roller moth and E. ligella from Bukhara belong to the same species of E. punicaella. Literary data about the damage to pemegranates, apples, quinces and peaches in Central Asia by the leaf-roller moths of the Euzophera genus should be related to the activity of E. punicaella. The exposed peculiarities of the biology of the pemegranate leaf-roller moth call for changes in the existing system of leafroller moth centrel. -- A.P. Adrianov

Card : 2/2

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