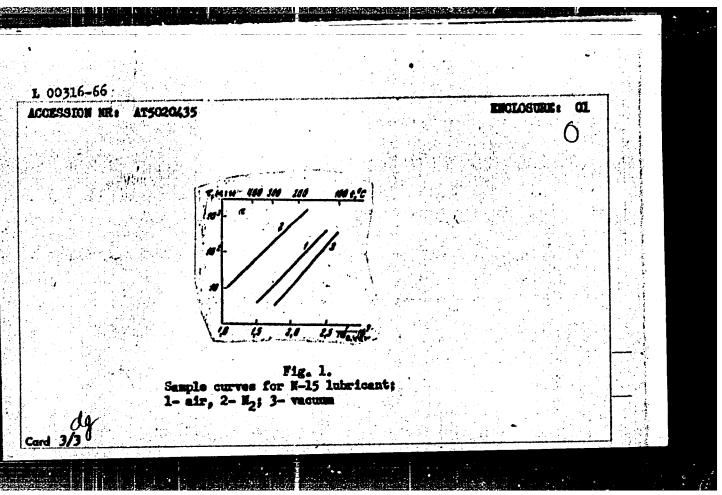
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L 00316-66 -ACCESSION NR: AT5020435 vacuum (10 tor) and under nitrogen (1 liter/minute). It was found that the time to-failure t as a function of absolute temperature T and stress σ could be expressed as $\log t = A + B/T\sigma$ (A, B = constants). Curves of time-to-failure at different operating temperatures (100-4000) were obtained for 8 lubricants in air, vacuum, and nitrogen (see Fig. 1 on the Enclosure). It was found that for hydrocarbon lubricants (MS-20, MAS-35, N-15) and ethylpolysiloxane fluid (lubricant 6) time to-failure increased considerably in Ni, indicating the importance of oxidation processes. For lubricants Fm 1322/300, PMS-100, PMS-20, and dioctalsebacynate, the effect of Ni atmosphere was negligible. In vacuum the decrease of 02 concentration tends to lengthen operating life, while the increased lubricant vaporization decreases it. The net effect was always a decrease of time-to-failure in a vacuum as compared with air and No curves. Orig. art. has: 2 figures. ASSOCIATION: Nauchnyy sovet po treniyu i smarkam, AN SSSR (Scientific Committee on Friction and Lubrication, AN SSSR) SUB CODE: FP SUBMITTED: 22May65 002 OTHER: NO REF SOY: Card 2/3



HIRREYEV. V.A.

[Hydraulic press units; calculation, construction and operation] Gidravlicheskie pressovye ustanovki; raschet, konstruirovanie i ekspluatatsiia. Isd.
2., ispr.i dop. Moskva, Gos. nauchno-tekhn. isd-vo mashinostroit.i sudostroit.
1it-ry, 1953. 74 p.

(HERA 6:10)
(Hydraulic presses)

MIKHEYEV, V. A. and KORNILOV, I. I.

"Constitution Diagrams of Metallic Systems Based on Chromium," Uspeki.: Khimii 22 (1953) pp 87/98.

B-77406, 21 Jul 54

MIRHEYEY, V.A.; BUTAKOV, S.Ye., doktor tekhnicheskikh nauk, redaktor;

MIRHEYEY, V.A.; BUTAKOV, S.Ye., doktor tekhnicheskikh nauk

"Use of Extremely High Liquid Pressures in New Hydraulic Presses"
p. 467-476 in book increasing the Quality and Efficiency of Machinery, Moscow, Mashaiz, 1957, 626pp.

MIKHEYEVVA

122-5-3/35

AUTHOR: Mikheyev, V.A. (Engineer)

TITLE: A New Design of a Stuffing Box with a Graphite Loaded Grease Seal. (Novaya konstruktsiya sal'nika s metallozhidkostnym uplotneniyem)

PERIODICAL: Vestnik Mashinostroyeniya, 1957, Nr 5, pp.9-10 (USSR)

ABSTRACT: A new type of hydraulic seal for reciprocating plungers is described and illustrated. The seal occupies an annular space between a 45 mm diameter plunger and a 65 mm diameter housing. 10 mm lengths at each end of the space are filled with "Lion" type packing. The middle 70 mm length contains 5 pairs of rings, namely five outer rings of 7 mm square cross-section fitting the housing and leaving a clearance of 3.5 mm against the plunger, and five inner rings of the same basic cross section fitting the plunger. All but the inner ring at the end have an internal chamfer facing inwards towards the high pressure side (45°). All clearance spaces are filled with an emulsion consisting of 70% silver graphite mixture and 30% grease. The mild steel, non-heat treated, ground rings are oiled in assembly. A similar seal for an 80 mm plunger was tested under static conditions against a spindle oil pressure of 400 atm. After 68 hours no leakage

Card 1/2

122-5-3/35

A New Design of a Stuffing Box with a Graphite Loaded Grease Seal.

was observed. Reciprocating motion tests are described and the test stand illustrated diagrammatically. Fully tight sealing was observed against 350 atm in machine oil and 320 atm in water. The numbers of reversals in the tests were 113 000 and 312 000 respectively. Editorial remarks suggest that testing was insufficient. There are 2 illustrations.

AVAILABLE: Library of Congress.

Card 2/2

SOV/137-58-7-14346

V.T.

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7 p 56 (USSR)

AUTHORS: Mikheyev, V A , Sushchirskiv, D A

TITLE: Water-sealed Electrodes (Gidrouplotnemye elektrodov)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 10, pp 30-31

ABSTRACT: Good sealing of the interior of electric reduction furnaces is reflected in output per unit time—thermal conditions, internal pressure, electrode service, and the atmosphere of the department. The asbestos-sealed heat-exchanger system formerly employed did not work out. A water-seal type of jacket is proposed. Around the electrode there would be an annular trough with high walls, filled with running water. A hollow, water-cooled annular blade—fastened to the electrode holder, is lowered into this trough. A telescopic device is pro-

vided to assure the required motion of the electrodes. As the knife rises, supplementary piping is linked therewith, so that the bottom of the bottom pipe is always in the water.

1. Electric furnaces--Equipment 1. Electrodes--Dealing

Card 1/1

25(1)

PHASE I BOOK EXPLOITATION

SOV/1581

Mikheyev, Valentin Aleksandrovich

- Gidropressovyye ustanovki sverkhvysokikh davleniy (Super-high Pressure Hydraulic Presses) Moscow, Mashgiz, 1958. 117 p. 5,000 copies printed.
- Reviewer: L.A. Yefimov, Engineer; Ed.: V.B. Skornyakov, Candidate of Technical Sciences; Tech. Ed.: N.A. Dugina; Exec. Ed. (Ural-Siberian Division, Mashgiz): M.A. Bezukladnikov, Engineer.
- PURPOSE: This book is intended for engineering and technical personnel, designers and technologists, scientific personnel and students at vtuzes.
- COVERAGE: The book presents material on the development and operation of hydraulic presses operating at super-high pressures. The advantages of such presses over conventional hydraulic presses and prospects for using them in Soviet industry are described. The author presents designs and constructions of hydraulic presses with super-high pressure. The following personalities are mentioned for their active participation in the development of new hydraulic machinery: Card 1/3

Super-high Pressure (Cont.)	SOV/ 1581
designers and hydraulic press build F.B. Shiker, B.I. Polyakov, I.A. Ro Kalinkin, A.M. Figurovskaya, A.L. There are 9 references, of which 8	Ozhenko, Ye.A. Korovin, V.V. Avzenshtok, and B.A. Trembach
TABLE OF CONTENTS:	
Introduction	3
Ch. I. Some Problems Concerning the I of Construction General information	Design and Selection of Type 7 7
Ch. II. Designs of Special Purpose Hy The first experimental press using	draulic Presses 17 super-high pressures of the
200-ton capacity hydraulic straight Hydraulic press for pressing stator	cening press 25
Hydraulic press for testing pipes w	inder pressure of 1000

Super-high Pro	essure (Cont.)	90% (2.50)		
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ce on new Methods of Paking Lead

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A.M. Zykov of the Leningrad Polytechnic Institute criticised the reports presented as being insufficiently analytical. G.P. Vyatlev of the Ukrtolnk Works recommended the adoption of electric instead of shaft smelting of secondary lead materials at the orks. A.M. vol'skly, Corresponding Member of the Ac.Sc. of the Mintsvetmotophoto described work he had directed there on sulphide exidation and recommended more attention to safety aspects.
v.F. Fedorov of the GNTK USSR drev attention to the comparative lack of work in the Soviet lead industry on

new methods, but op osed the proposal by Gintsvetmet to build a new, large electric furnace at the Leminogorsk works. P.I. Kravchenko of the Elektrotsink Works deplored the incompleteness of all the work reported at the conference. A.M. Lomov of Kavkazgiprotsvetmet considered the adoption of electric smelting of lead concentrates and I.D. Panchenko of IONKh of the Ac.Sc. Ukrainian SSR with electrolysis of fused salts. F.M. Losautov, Professor, Doctor of Technical Sciences of Mintsvetmetzoloto reminded the conference that electric smelting is not applicable to all materials and disagreed with Kostin's suggestion that all Soviet works should be converted to

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Conference on New Methods of Making Load SCV/136-58-9-16/21

PROPERTY OF THE PROPERTY OF TH

this practice; he also spoke against alkeli treatment of lead-containing meterials - a view opered by G.G. Zapevalov of the Irkutskiy como-metalluncicleskiy institut (Trkutsk Mining-metallurgical Institute) its also stressed the need for economic evaluation. L.A.C. Physic of Giprotsvetmet doubted "Lether electric smelti. could revolutionise the lead industry and diged more research on the alkali process and sint ring. I.V. Paramonov of the Gosplan of the KezSSR criticised the recession work reported but D.M. Klushin of Gintsvettet sold that this work had gone a long way to realise the sime set it at the previous conference though such efforts becaused. I'any speakers deployed the lack of central direction of research work. After sutting on record their views in the proposed methods, the conference decided has of ortish ld be concentrated on the study and develor, it if a) electric smelting of this ry lead remodels also the study and develors at a state of the study and develors at a state of the study and develors at a state of the state added flowers and electric smelting of second to refer hale;

b) electrolysis of lead a recentingtes in found a sectrolates (for the rich naterials . The "Elektrotonak" and Sixioli 1/5 (Liks); c) electrolytic refinite of led in a reons

MINHENEY, Valentin Aleksandrovich; YAM, Vladimir Mozusovich; FOLYAKOV, Serie Ivanovich; GoLOSKOV, E.I., inzh., retsenzent; GBOLDUYEV, G.T., inzh., red.; BORODULINA, I.A., red. izd-va; KUREPINA, G.N., red. izd-va; PETERSON, M.M., tekhm. red.; BARDINA, A.A., tekhm. red.

[Modernization of hydraulic press equipment] Modernizatsiia gidropressovogo oborudovaniia. Moskva, Gos. nauchno-tekhm. izd-vo mashinostroit. lit-ry, 1961. 248 p. (MIRA 14:8)

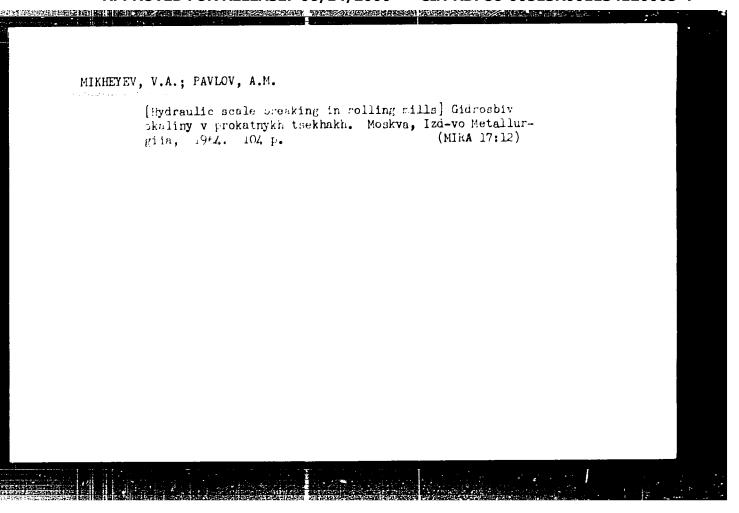
(Hydraulio presses—Technological immovations)

MIKHETEV, V.A.; GUBAYDULLIN, G.S.

Sinter reasting of lead charge mixtures on a sintering machine with bottom blow, recirculation of gases and the use of oxygen. Thret. met. 36 no.4:27-35 Ap 163.

(Sintering) (Lead ores)

(MIRA 16:4)



1 32151-65 EMT(d)/EMT(m)/EMP(w)/EPF(c)/EWA(d)/EMP(v)/T/EMP(t)/EMP(k)/EMP(h)/EMP

AUTHOR: Klimov, K. I.; Mikheyev, V. A.

TITIE: A five-ball friction machine for research on lubricating materials

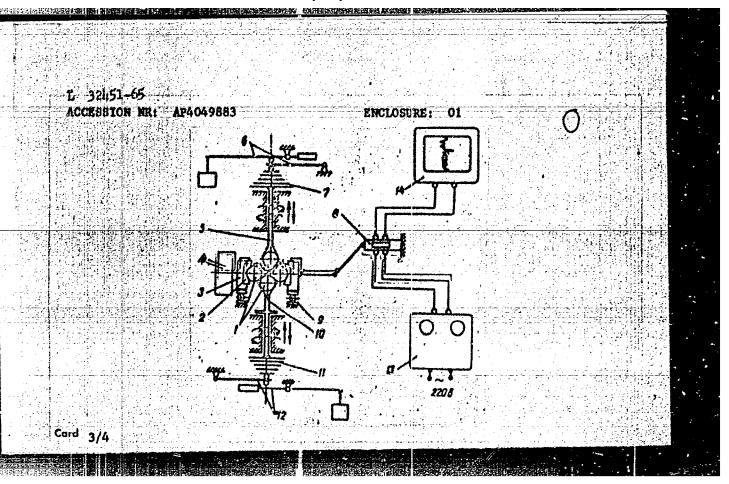
SOURCE: Heftepererabotka i neftekhimiya, no. 3, 1964, 31-34

TOPIC TACS: lubricant, lubricant testing, friction machine, lubricant stability

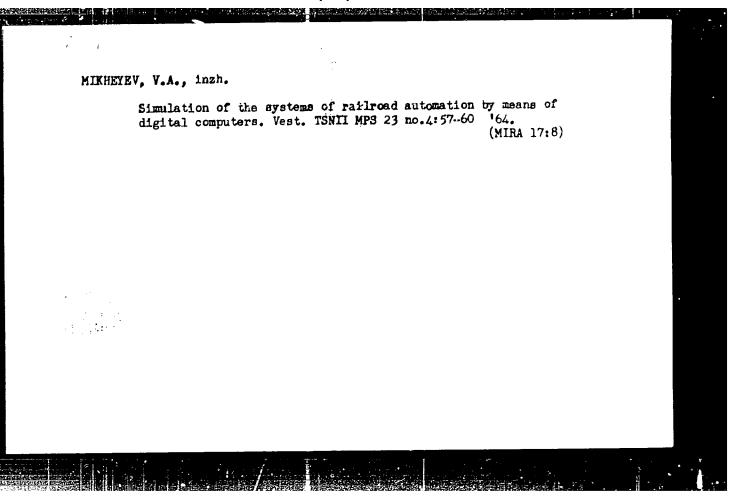
ABSTRACT: With high-temperature and high-speed conditions outstripping the qualifications of mineral oil and plastic lubricating materials especially because of a lack of high-temperature stability, and since extensive research in this area is lacking, even the research methods have not yet been developed. Four-ball friction machines are unsatisfactory by virtue of the time necessary for completing experiments; the authors therefore constructed a five-ball friction machine applicable to cases of rolling friction, sliding friction, or both. The apparatus, shown in Fig. 1 of the Enclosure, has five balls 9.52 mm in diameter capable of revolving in opposite or coinciding directions at speeds of 500-10,000 rpm. As is evident from the drawing, pressure can be applied from either or both sides of the machine, and the two balls can be rotated in similar, opposite, or intermittent fashion, or one of them can be completely removed from operation. Infinite variations may be made by substituting balls of differing materials, and

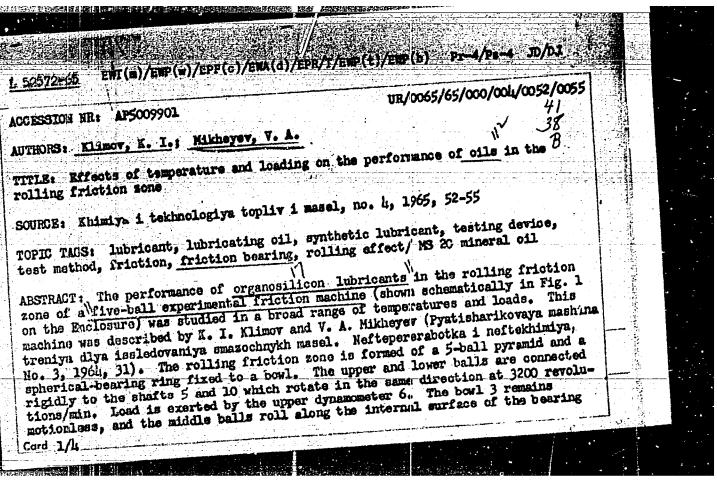
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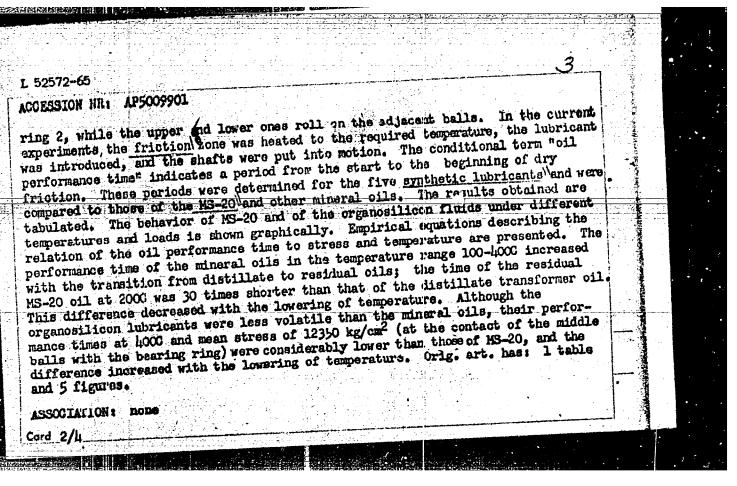
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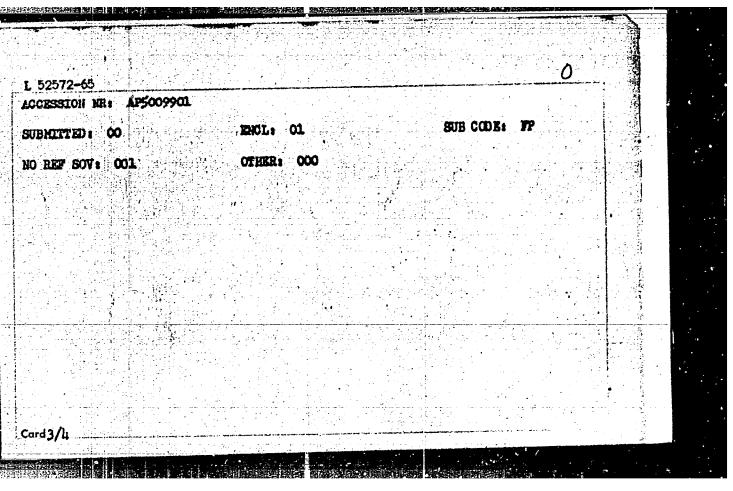
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	Pigure 1. Diagram of the five-ball 2. external ring of the bearing; 3.	friction machine:	1. pyramid o	f f 1300 hots	
	2. external ring of the bearing; 3. 6. upper "load" assembly; 7. upper 9. thrust bearing; 10. lower ball; "load" assembly: 13	flywhool complex	ectric oven; 5.	upper ball:	
	9. thrust bearing; 10. lower ball; "load" assembly; 13. feed panel for vice.	11. lower flywh	; o. tensometr eel assembly: 1	ic indicator;	
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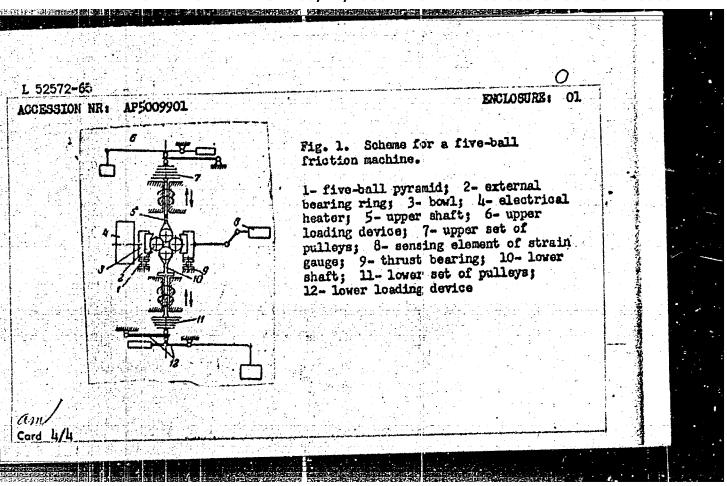






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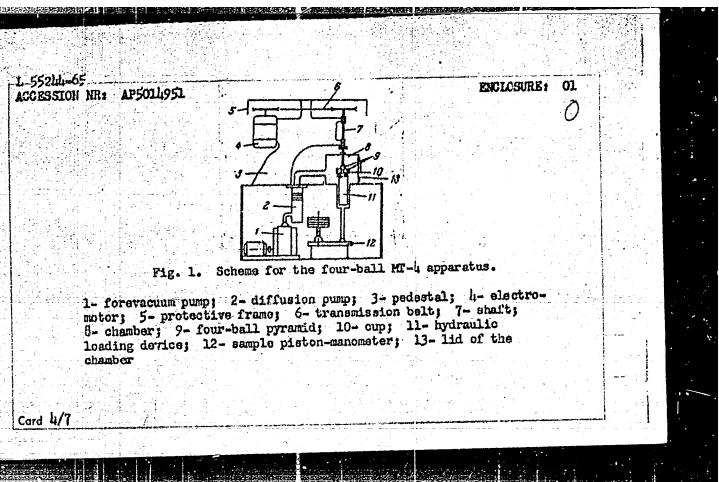


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AUTHORS: Klimov, K. I.; Mikheyev, V. A.	ecoment gageous madia	_
AUTHORS: Klimov, A. 1.; Authors of oils during rolling friction in di	III arang gaboosb	
SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1965,	50-53 .	
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TOPIC TAGS: lubricating oil, engine, organization compound, friction, friction bearing, oxygen/MS 20 oil, SM 6 oil, PMS friction, friction bearing, oxygen/MS 20 oil, SM 6 oil, PMS	100 oil, PMS 20 oil,	
friction, friction bearing, oxygen, MS 20 off, the first 1322 300 oil, OS oil, MF 4 testing device		
FM 1322 300 011, 00 522,		
ARSTRACT: The effect of vacuum and neutral gas on the perfor organosilicic and hydrocarbon oils (PMS-100, FM 1322.300; PM 1322.300; PM organosilicic and hydrocarbon oils (PMS-100, FM 1322.300; PM	S-20, SM-6) in the	
organosilicic and nydrodas was studied in the MI-4 testing device	and with the investim	
A ILA KACIARITALA DOLLO MANA	AM AT THE LUM - DO-	
gated oil are placed in with air or nitrogen or evacuated.	ng iricaton bond a	
friction device filled with air or nitrogen or evacuation. The heated and loaded before the shaft is put into motion. The moment is registered continuously. Time period T (from the	e shaft rotation start	
moment is registered continuously.		
Card 1/7		

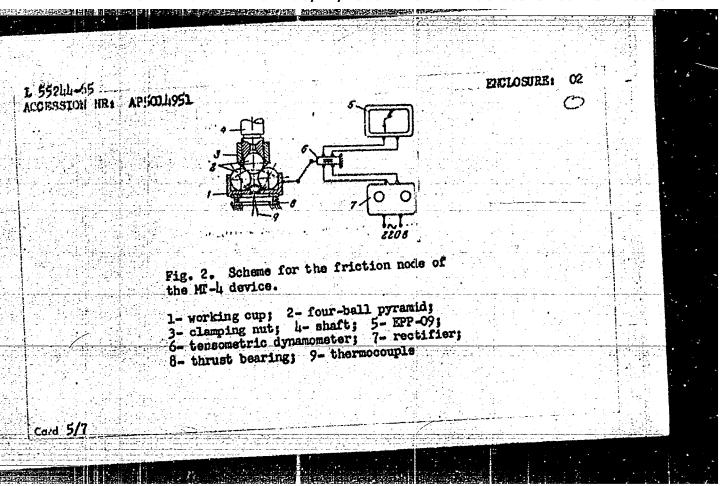
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to the sudden increase in the friction moment) determines the normal work period of the friction node. The relation of Tmin to the absolute temperature (T) and of the friction node. The relation of Tmin to the absolute temperature (T) and to stress at the zone of ball contact with the vertical cup walls (δ_{cp}) is described by the equation $ g_{cp} ^{\frac{1}{2}}$	
where A and B are constants used in the wearing capacity to the wearing capacity of the property of the property of the figures 3 and 4 on rolling friction zone. Investigation results are presented in Figures 3 and 4 on rolling friction zone. Investigation results are presented in Figures 3 and 4 on rolling friction rolling from the particular case: 5 = 104 kg/cm ² . The organosilicion	
hydrocarbon oils and the ethylpolysiloxene fluids increased under nitrogen, while hydrocarbon oils and the ethylpolysiloxene and dioctylcebacinate remained unchanged that of the methyl- and phenylpolysiloxene and dioctylcebacinate remained unchanged that of the methyl- and phenylpolysiloxene and dioctylcebacinate remained unchanged that of the methyl- and phenylpolysiloxene and dioctylcebacinate remained unchanged that of the methyl- and phenylpolysiloxene and dioctylcebacinate remained unchanged that of the methyl- and phenylpolysiloxene and dioctylcebacinate remained unchanged that of the methyl- and phenylpolysiloxene and dioctylcebacinate remained unchanged that of the methyl- and phenylpolysiloxene and dioctylcebacinate remained unchanged that of the methyl- and phenylpolysiloxene and dioctylcebacinate remained unchanged that of the methyl- and phenylpolysiloxene and dioctylcebacinate remained unchanged that of the methyl- and phenylpolysiloxene and dioctylcebacinate remained unchanged in a vacuum, the period of normal working performance decreased with the increase in oil volatility. This effect was corrected by decreasing the gas-space volume.	
At the exchange of atmospheric conditions for vacuum (where the order of the oil existent the working capacity of oils began to depend on the degree of the oil expenditure was by atmospheric expenditure and by atmospheric expenditure was decreased due to exidation and increased as a result of evaporation). Orig. art. has 1 table and 5 figures.	

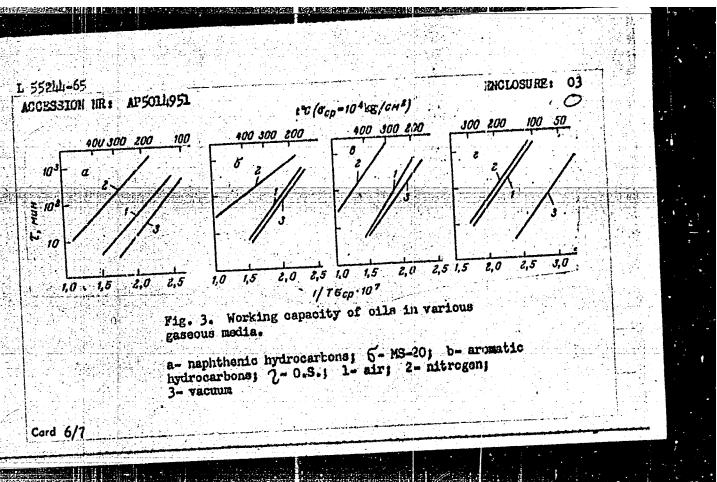
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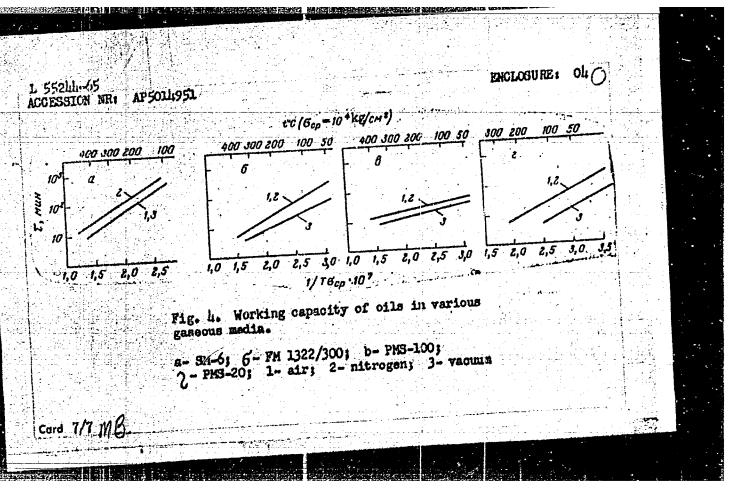


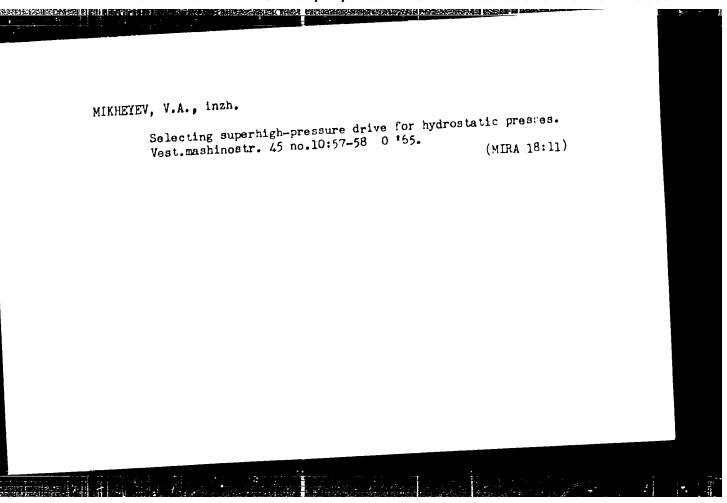
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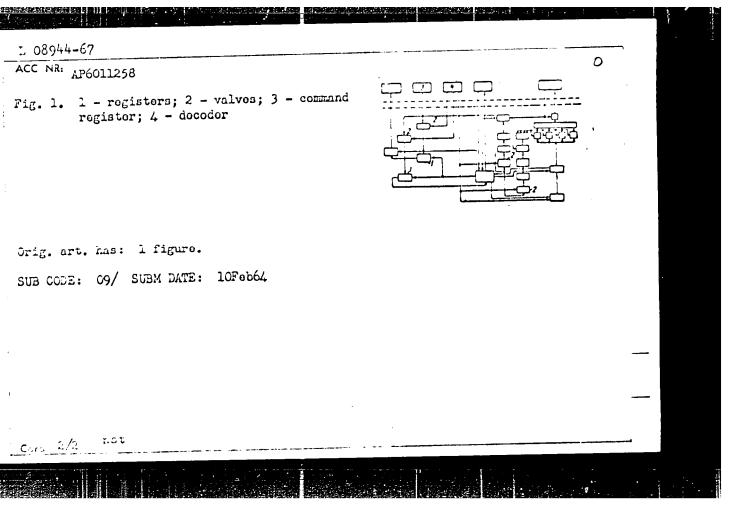


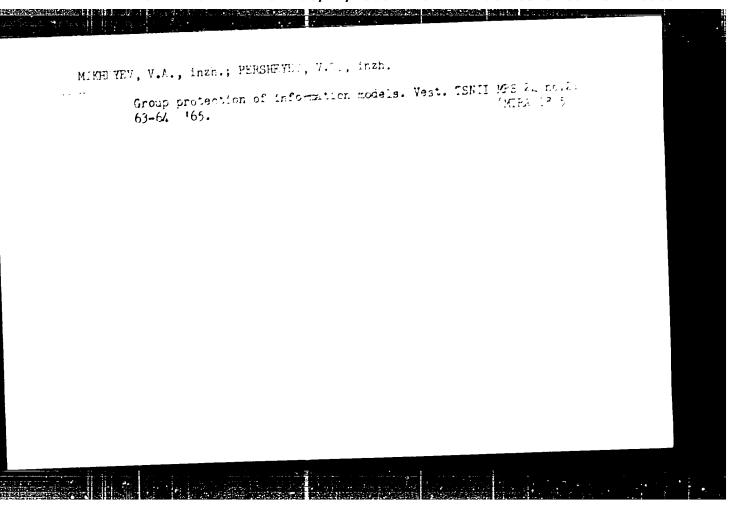


ACC NR APCOILES Acceptable to the group input of information from punched cards to an electronic connected with institute of the Ministry of the Means of Dermanisations (Tsentral nyy nauennomissledovatel'skiy institut Ministry observed a device for the group input of information from punched cards to an electronic connect. The Means of Dermanisations (Tsentral nyy nauennomissledovatel'skiy institut Ministerstva putey soobshenoniya) SOURCE: Inobreteniya, promyshlennyys obrastsy, tovarnyys anaki, no. 6, 1966, 98-99 TOPIC TAGS: punched card, computer input unit ASSTRACT: This Author Certificate presents a device for the group input of information from punched cards to an electronic computer with a linear structure. The tion from punched cards to an electronic computer with a linear structure of the group vide the possibility of random and independent changes of the parameters of the group vide the possibility of random and independent changes of the parameters are used input in the process of reading a large mass of punched cards. Registers are used in the device as the colectors of the current address, the numbers of the colla, and in the device as the obsectors of the current address, the numbers of the colla, and selection parameters which are stored in the memory. The input channels of the registers are connected through valves with the outputs of the triggers of the computer command register (see Fig. 1). The resolution inputs of the valves are connected with the separate outputs of the computer decoder.	ALLINOTED FOR NEELAS	DE: 00/14/2000 CIA ((D) 0	0 005151(001154120	7005 4
ACCURACION Aprolated ACTIONS: Marchaek, P. Yo.; Pequahin, L. M.; Mikheyev, V. A. Cha: none This: A device for the group input of information from punched cards to an electronic consister. Chass A2, No. 179791 [Announced by Control Scientific Research trails of the Ministry of the Means of Communications (Teentral nyy nauchnosiseledovatel skiy institut Ministerstva putey socialconing) SOURCE: Importaniya, promyshlennyys obraztsy, tovarnyyo znaki, no. 6, 1966, 98-99 TOPIC TAGS: punched card, computer input unit ACCURACY: This Author Certificate presents a device for the group input of information from punched cards to an electronic computer with a linear structure. The circumpture in the interruption of the meaning operation and is designed to prodevice implements the interruption of the meaning operation and is designed to provide the possibility of random and independent changes of the parameters of the group vide the possibility of random and independent changes of the parameters are used input in the process of reading a large mass of punched cards. Registers are used in the device as the advectors of the current address, the numbers of the cells, and in the device as the advectors of the current address, the numbers of the colls, and selection parameters which are stored in the memory. The input channels of the selection are connected through valves with the outputs of the triggers of the computer command register (see Fig. 1). The resolution inputs of the valves are connected with the separate outputs of the computer decoder.			Enter Continue Continue to the	V .6
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NAZAROV, M.S.; OVSYAMNIKOV, N.G.; SOYUZOV, A.A.; MITAISHVILI, A.A.;
YUDIN, P.G.; SOLOV'YEV, I.F.; SVIRIDOV, A.A.; RUMTAINSEV, S.M.;
KOLICHERKO, K.N.; NIKULIN, M.R.; ORLOV, D.A.; MAYOPSKIY, G.I.;
SEMEROV, I.Ya.; SUTYRIN, M.A.; KOVALEV, A.I.; VLASOV, A.A.;
LEVIN, YA.L.; KLINOVITSKIY, A.Z.; METAL'NIKOV, G.F.; PANUSHKIN,
G.P.; CHECHETKIN, A.V.; MIKHEYEV, V.D.; KOLOKOL'NIKOV, K.A.;
MOISETEVA, A.I.; TIRON, G.I.; KRYLOVA, V.F.; COFMAN, Ya.M.;
BUDCHANOV, B.F.

K.I. Korshunova; an obituary. Rech. transp. 20 no.12; 70 0 161.

(MIRA 14:12)

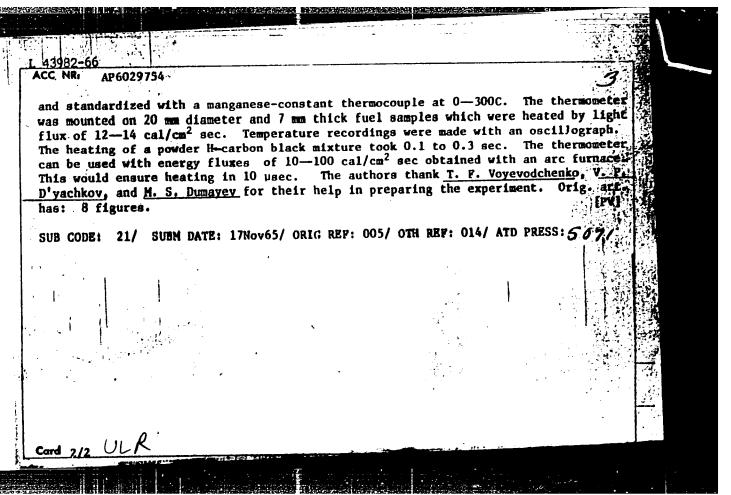
(Korshunova, Kseniia Ivanovna, 1910-1961)

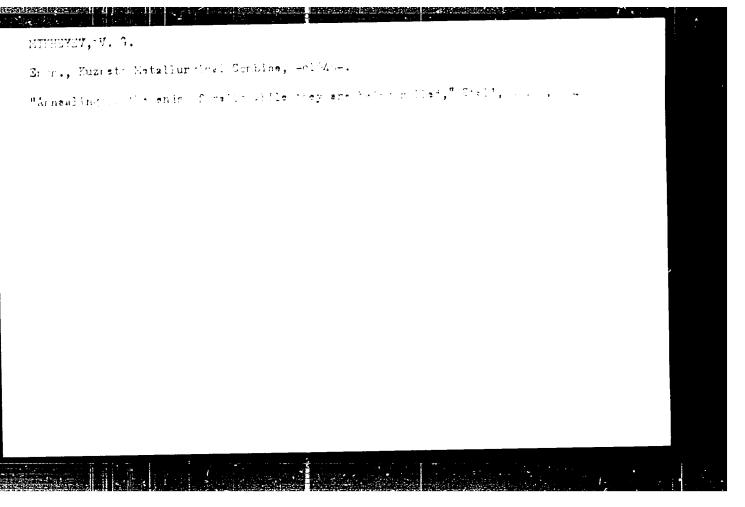
1 33437-66 EWT(n)/EWP(j)/T IJP(c) D3/WW/JWD/RM ACC NR: AP6020553 SOURCE CODE: UR/O414/66/000/001/0068/0073	
ACC NR. AP6020553 SOURCE CODE. AUTHOR: Aleksandrov, V. V. (Novosibirsk); Konev, E. V. (Novosibirsk); Mikheyev, V. F. (Novosibirsk); Khlevnoy, S. S. (Novosibirsk)	
Mikheyev, V. F. (Novosibirsk); knievnoy, s	
TITLE: Surface temperature of burning mitted.	
counce. Figika goreniya i vzryva, no. 1, 1900, 000,	
TOPIC TAGS: nitroglycerine, combustion temperature, solid propellant combustion, combustion research	
ABSTRACT: The surface temperature T_g of nitroglycerine powder hourning in air was measured as a function of the initial temperature of the powder T_0 (ranging from -25 to 125C). A thin ($\sim 5\mu$) manganinconstantan they mocouple located between the compressed powder specimen and an ebonite substrate cemented together with acetone was used for the measurements. The tabulated and graphed results show that the surface temperature of the powder is practically independent of the surface temperature and varied between 275 * 21C at T_0 = 20C initial powder temperature and varied between 275 about 275C and apparently and 281 * 11C at T_0 = 116C. The average T_g is about 275C and dinitrotoluene	-
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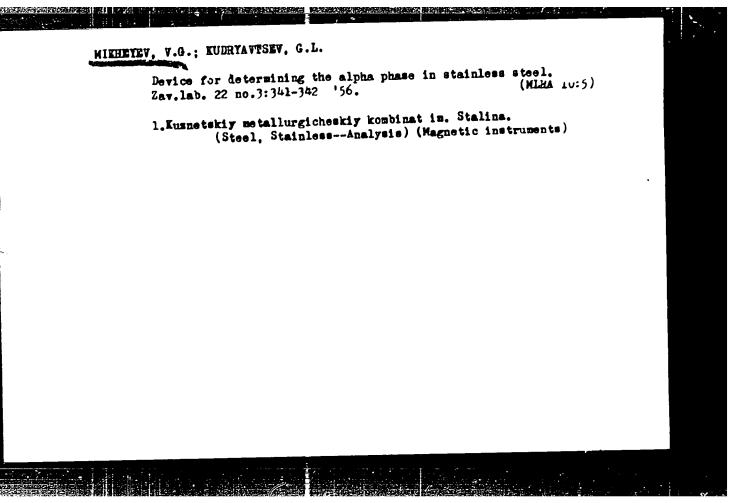
L 33437-66 ACC NR. AP6020553 hixtures in the presence of nitrocellulose and decomposition products. Data on the burning velocity of H powder at $T_0 < 20-40C$, calculated on the assumption that Tg is equal to the boiling temperature of the mixture, are in good agreement with published experimental data on the dependence of the burning velocity u on the initial powder temperature in the same temperature range. The results indicate that the evaporation of the volatile components plays a great role in the burning of nitroglycerine powders. To explain the $u(T_0)$ dependence, it is suggested that at $T_0 < 40C$, u is determined by the solid-phase reaction and at $T_0 > 40$ C, u is determined by the reaction in the gaseous or in the aerosol phase. The author is grateful to A. A. Koval'skiy for his advice and also to all his coworkers at the Laboratory of the combustion of condensed systems of the Institute of chemical kinetics and combustion Siberian branch, AN SSSR for their discussion of the work. [PS] art. has: 4 figures, 1 table, and 2 formulas. SUB CODE: 19/ SUBM DATE: 15Nov65/ ORIG REF: 008/ OTH REF: 001/ ATD PRESS: 502 7 2/2 ULB Card

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IL/CMC/WW/QL IJP(c) EWT(1)/EWP(e)/EWT(m)/T/EWP(t)/ETI/EWP(k) UR/0414/66/000/002/0044/0051 SOURCE CODE: AP6029754 ACC NRI AUTHOR: Mikheyev, V. F. (Novosibirsk); Khlevnoy, S. S. (Novosibirsk); Khudyekov A. V. (Novosibirsk) ORG: none TITLE: A thin film resistance thermometer for recording temperatures on the of powder/during rapid heating SOURCE: 'Fizika goreniya i vzryva, no. 2, 1966, 44-51 TOPIC TAGS: solid propellant, propellant, combustion, solid fuel rocket ABSTRACT: One of the important characteristics of solid rocket fuel is the change in the surface temperature prior to ignition at various initial conditions and with various types of energy incident on the surface. The study of the ignition process is of greatest interest when the fuel is heated very rapidly (ignition time 10^{-2} sed) which is close to the actual ignition conditions in solid fuel rocket engines. Temperature measurement of the fuel surface has been studied by methods based on the emission of infrared radiation from the surface. This, however, had the shortcoming that the products of evaporation and decomposition affect the measurements. In the present study, a thin film resistance thermometer (0.5 µ thick and 0.2-0.3 mm wide) was prepared and used to measure the surface temperature during rapid heating by light energy. The nickel resistance thermometer was prepared electrolytically UDC: 536.46+541.427.6







AUTHOR: Mikheyev, V.G., Eng. (Kuznetsk Metallurgical Combine).

TITLE: An investigation of defective rails removed from tracks.

(Issledovanie snyatykh s puti defektnykh rel'sov).

PERIODICAL: "Stal'" (Steel), 1957, No.4, pp.343-347 (U.S.S.R.)

ABSTRACT:

A large scale investigation of rails (rolled in 1947-48) taken from tracks was carried out in 1950-51 by the Central Laboratory of the Kuznetsk Combine. was then established that the most frequent defect (horizontal split on the head at the end of rails) was In 1949, slow cooling of rails after due to flakes. rolling and hardening of ends (from rolling heating) in This treatment special boxes was introduced. prevented the formation of flakes and in 1954-56 a new investigation of 130 rails removed from tracks (produced in 1951-53) was carried out. The distribution of the above rails according to defects is shown in Table 1. No defects caused by flakes were found. majority of defects was associated with the local contamination of metal by non-metallic inclusions and with the presence of fine cracks and fissures in the middle of the rails base. A significant part of the rails removed was found to be sound. It is pointed out that previously, when a single rail was found to have flakes, all the rails made from the same melt were removed. A detailed description of defects with illus-There is 1 table and 10 figures. trations is given.

AUTHORS:

Sakharov, G.A. and Mikheyev, V.G. (Kuznetsk Metallurg-

ical Combine).

TITLE: An improvement in the surface quality of stainless

steel sheets. (Uluchsheniye poverkhnosti nerzhave-

yushchego lista).

PERIODICAL: "Stal'" (Steel), 1957, No.4, pp. 377-378 (U.S.S.R.)

ABSTRACT:

The most common defects on the surface of metal during rolling thick sheets from steel 1X18H9T on the Kuznetsk Combine were cracks on slabs and fissures. film-cracks on finished sheets. The formation of these defects was due to factors related to melting and rolling of the metal. Treatment of data collected from 549 melts indicated that the quality of the surface of sheets deteriorates with increasing Cr : Ni and Ti : C i.e. with increasing amount of a-phase in the metal. Initially ingots were heated to 1260-1280°C (without correction). A decrease of the heating temperature to 1250-1260°C noticeably improved the surface quality of the sheets produced. A check on the content of the a-phase in slabs (edges, middle and intermediate parts) after heating was carried out. (Table). It was found that the content of a-phase increases from the edges towards the middle of the slab, moreover, the amount of a-phase in slabs placed in the corners of the heating

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An improvement in the surface quality of stainless steel sheets. (Cont.)

furnace was higher. It was found from experience that on the appearance of cracks in the first rolled ingot of a melt, the plasticity of the metal in the remaining ingots can be improved by increasing the soaking time by 2-4 hours with simultaneous decrease in temperatures by 20-30°C. When the content of the a-phase in ingots does not exceed 15%, their heating temperature should be 1260-1270°C with soaking time of 4 hours. Total duration of heating of 5.8 t ingots - 6 to 8 hours. When the content of the a-phase is higher than 15% the heating temperature should be lowered to 1250°C. There are four figures and 1 table.

S/129/62/000/006/008/008 E193/E383

AUTHORS: Shipilov, A.D. and Mikheyov, V.G., Engineers TITLE: Case-hardening of a chromium stainless steel PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov, no. 6, 1962, 55 - 56 + 1 plate

The investigation described in the present paper was carried out at huznets Metallurgical Combine with the object TEXT: of studying the structure and properties of case-hardened steel 1413 (1Kh13), which is characterized by exceptionally high resistance to abrasion. Case-hardening was carried out at 920 - 940 °C in a solid carburizing medium consisting of 35% semicoke and 15% soda. After quenching from the carburizing temperature a case was obtained which consisted mainly of a carbide phase interspersed with a small proportion of martensite. The depth of carburization depended on the carburizing time and ranged from 0.6 mm after 15 hours to 1.6 mm after 60 hours. The carbon content of the case decreased gradually from about 5.5% at the surface to about 0.2% at a distance of 1.5 mm from the surface. Hardness measurements conducted on test pieces Card 1/2 -

S/129/62/000/006/008/008 E193/E383

Case-hardening of

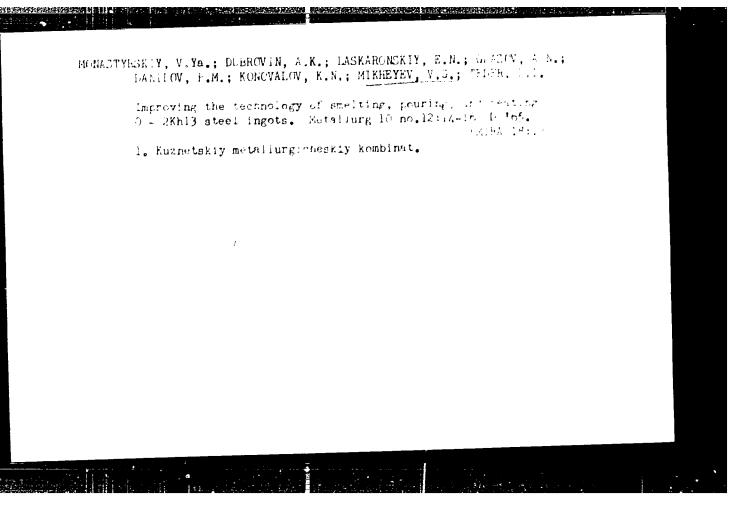
carburized and quenched from 800 - 1 100 °C showed that the maximum hardness HRC = 67 was attained after quenching from 900 °C. With increasing distance from the surface of the carburized case, its hardness after this treatment remained constant at IRC = 67 to a depth of 0.4 mm, after which it gradually decreased, reaching a value of 45 at a distance of 2 mm from the surface. The results of tempering experiments are rproduced in Fig. 6, where the hardness (HRC) at the surface of the case is plotted against the tempering temperature (°C), the various curves relating to specimens quenched from temperatures indicated by each curve. It is stated in the concluding paragraph that by changing the material of a pressing die from steel 10 to steel Khl3 a tenfold increase in the life of the tool was attained. There are 6 figures.

ASSOCIATION:

Kuznetskiy metallurgicheskiy kombinat

(Kuznets Metallurgical Combine)

Card 2/8 -



MIKHETEV, Vladimir Ivanovich; TRIFONOV, V., red.; MUKHIN, Yu., tekhn.red.

[A leap into the future; an account of the building of socialism in the people's China] Skachok v budushchee; rasskaz o stroitel'stve sotsializma v narodnom Kitae. Moskva, Gos.izd-vo polit. lit-ry, 1959. 78 p. (MIRA 12:4)

(China--Economic policy)

(MIRA 13:10)

Lay-off of shaft axes in the Kalininugol' Rumintsev Mine. Ugol'

Ukr. 4 no.10:32-33 0 160.

1. Glavnyy marksheyder shakhty im. Rumyantseva tresta Kalininugol'.
(Mine surveying)

5/044/62/000/008/007/073 C111/C333

AUTHORS:

Postoyev, V. S., Mikheyev, V. I.

TITLE:

The tension state of a torus shaped shell under the

influence of hydrostatic pressure

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 8, 1962, 33-34, abstract 8B149. ("Tr. Vses. zaochn. lesotekhn. in-ta",

1961, no. 7, 125-137)

Examined is the calculation of a torus shaped shell in the general case, where the boundary conditions are given more exact than TEXT: usual. The method of asymptotic integration is used to solve the equation for the symmetrical deformation of such a shell; the calculation formulas are obtained relatively easy by this method.

Abstracter's note: Complete translation.

Card 1/1

CIA-RDP86-00513R001134120005-4" **APPROVED FOR RELEASE: 06/14/2000**

S/081/61/000/020/035/089 B117/B147

AUTHORS: Mikheyev, V. I., Semenov, V. V.

TITLE: Data for the X-ray detector of metals and alloys

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 20, 1961, 123, abstract 20D142 (Zap. Leningr. gorn. in-ta, v. 38, no. 2, 1961, 107-121)

TEXT: The authors give data of standard X-ray patterns of Te, Sn, Pb, Ag, Au, Al, Ta, Pt, Ir, Pd, Rh, Co, Zn, Cu, Os, Cr, Ni, Fe, and some of their alloys. They suggest a variant of the identification key of these elements. [Abstracter's note: Complete translation.]

Card 1/1

MIKHEYEV, V.I.; SAL'DAU, E.P.; MIKHEYEVA, I.V., red.; SHVETSOVA,
E.M., ved. red.

[X-ray guide to stnorals] Rentgenometricheskii opredelitel' mineralov. Leningrad, Nedra. Vol.2. 1965. 362 p.

(MIRA 18:7)

Crvs	I. [deceased]; a tal edge forms. hexagonal system	Report No.3:	Simple edge	forms of	trigonal	
	•		llography)		(MIRA 15:1)	
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E-3

USSR/Solid State Physics - Structural Crystallography

: Ref Zhur - Fizika, No 1, 1958, 897

BRIDGE TO THE PARTY OF THE PART

Author

Abs Jour

: Mikheev, V.L.

Inst Title

: X-ray Determinative Tables for Minerals.

Orig Pub

: Kristallografiya, 1957, 2, No 4, 466-469

Abstract

: No abstract.

Card 1/1

21 (7)

Mikheyev. V. L. Skobelev, N. K., S07/56-37-3-45/62 AUTHORS:

Druin, V. A., Flerov, G. N.

TITLE:

On the Spontaneous Fission of ${\rm Am}^{241}$

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,

Vol 37, Nr 3(9), pp 859 - 861 (USSR)

ABSTRACT:

A number of heavy odd nuclei showing spontaneous fission has already been investigated by American authors. A short report is given on these investigations in the introduction. In the following, investigations carried out by the authors themselves are described. A gas scintillation counter was used as a detector for the fission fragments. The counter consisted essentially of a hermetically closed chamber filled with xenon, the glass window of which was connected to a photomultiplier; the inside of the window was covered by a layer of quaterphenyl (~50 μg/cm²), which caused ultraviolet radiation to be transformed into visible light. The chamber was evacuated to 5:10-6 Hg and then filled with Xe (2 atm). The FEU-33-type photomulti-

Card 1/3

plier had a time resolution of ~3.10⁻⁹sec. Recording of the

On the Spontaneous Fission of Am 241

SOT/56-37-3-45/62

fission fragments in the case of the strong α -background was carried out by means of a fast discriminator; a DGTs-7 diode served as nonlinear element in the circuit. The entire device was first tested by means of a Pu²⁴⁰ target and was calibrated with U²³⁵(200 μ g). The Pu²⁴⁰-half life was determined as amounting to 1.7·10¹¹ a, which agrees well with other measurements. For the jurpose of determining the counting characteristic all counters were surrounded by paraffin, and Po+Be was used as a neutron source (cf. figure). It was found that in the transition from Pu²⁴⁰ to Am²⁴¹ the characteristic practically did not change. Measurements on ~60 μ g Am²⁴¹ were carried out during 160 hours with a discrimination threshold of 4v. During this time 26 pulses were recorded; as shown by control tests, at least 18 of them originated from the background. Thus, the lower limit of the half-life of the spontaneous fission of Am²⁴¹ is about 2:10¹⁴a. The Cm²⁴² impurity is estimated

Card 2/3

On the Spontaneous Fission of Am 241

s07/56-37-3-45/62

at 10⁻¹⁰%. In conclusion, the results are compared with those obtained by Segre; the authors thank V. F. Gerasimov for his advice in constructing the counters. There are 1 figure and 6 references, 1 of which is Soviet.

SUBMITTED:

May 26, 1959

Card 3/3

5/120/60/000/006/017/045

E032/E314

26. 1640 authors: Ka

Karnaukhov, V.A. and Mikheyev, V.L.

TITLE:

Apparatus for Measuring the Total Thickness of

a-active Deposits

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No. 6, pp. 60 - 61

TEXT: The principle of the method is stated to be as follows. Consider an $\alpha\text{-active}$ deposit whose thickness is t. The average range of $\alpha\text{-particles}$ leaving the deposit along the normal to its surface is $R_0'=R_0'=t/2$, where R_0' is the

average range of $\alpha\text{-particles}$ emitted from a standard source whose thickness can be neglected. By determining the difference between R and R^{\dagger} one can find the total thickness of

the deposit under investigation. Fig. 1 shows the apparatus employed by the present authors. The specimen under investigation 2 and the standard specimen 3 can be presented in turn to the window of the proportional counter 5. Both the specimen-holder and the proportional counter are mounted on the same metal tube 1. The tube can be evacuated and then filled

Card 1/4

S/120/60/000/006/017/045 E032/E314

Apparatus for Measuring the Total Thickness of α -active Deposits

with methane which was used as the working gas. The counting efficiency was 1.5×10^{-4} . The average range of α -particles was determined by altering—the pressure of the gas. The gas pressure washees used by a mercury manometer. Fig. 2 shows some of the experimental curves obtained. They are all normalised to junity (the counting rate on the plateau was assumed to be equal to unity). Curve 1 was obtained with a Pu²³⁹ standard. The amount of plutonium determined from an α -count was found to be $20 \, \mu \text{g/cm}^2$ (PuO₂). Curve 2 refers to a Pu²³⁹ target prepared with the aid of tetra-ethylene glycol on a niobium foil. The thickness of the specimen, which was measured from the displacement relative to the standard curve, was found to be $200 \, \mu \text{g/cm}^2$ (PuO₂). The amount of plutonium calculated from the α -particle count was found to be $220 \, \mu \text{g/cm}^2$ (PuO₂). Curve 3 was obtained with the same target Card 2/4

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S/120/60/000/006/017/045 E032/E314

Apparatus for Measuring the Total Thickness of a-active Deposits as Curve 2 but with the target covered by an aluminium foil having a thickness of 390 µg/cm². Curve 4 refers to a target of Pu 241 . The α -count was due to an 8% impurity of Pu 240 . The target was prepared with the aid of tetra-ethylene glycol on a niobium foil. The total thickness of the target was found to be 830 µg/cm² (PuO₂). The amount of plutonium determined from the a-count was found to be 120 µg/cm² Curve 5 was obtained with a (PuO₀). Pu 246 target deposited by electrolysis on a nickel foil. The total thickness of the target was 620 µg/cm² (PuO₂) and the amount of plutonium determined from the α-count was 110 µg/cm² (PuO₂). In these experiments the thickness of the target was determined to an accuracy better than 70 µg/cm2 according to PuO2. Card 3/4

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S/120/60/000/006/017/045 E032/E314

Apparatus for Measuring the Total Thickness of a-active Deposits

Acknowledgments are expressed to G.N. Flerov and S.M. Polikanov for interest in this work. There are 2 figures and 2 Soviet references.

SUBMITTED: October 15, 1959

Card 4/4

33139

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S/120/61/000/006/005/041 E032/E114

AUTHORS: Bredel', V.V., Mikheyev, V.L., and Polikanov, S.M.

TITLE: Silicon detectors for heavy charged particles

PERIODICAL: Pribory i tekhnika eksperimenta, no.6, 1961 44 48

TEXT: The authors describe a method of preparation of charged-particle detectors using n-type silicon. The method is based on the work of G Dearnaley and A B. Whitehead (Ref ? Report AERE - R3437, Harwell, Berkshire, 1960). The n-type crystals (140 ohm.cm) were cut into plates of 5 x 5 x 1 mm³ or 2 x 2 x 1 mm³ so that the large face corresponded to the (111) orientation, i.e. it was perpendicular to the direction of growth of the crystal. The specimens were then polished with the aid of a rotating disc, the abrasive being fine silicon carbide powder deposited on a silk surface. The crystals were then washed in water and afterwards placed for ten minutes in boiling concentrated nitric acid. They were placed (for about ten minutes) in a mixture consisting of two parts of concentrated (90%) nitric acid, one part of glacial acetic acid and one part of Card 1/4

Silicon detectors for heavy charged.

33139 5/120/61/000/006/005/041 E032/E114

40% hydrofluoric acid. In the next stage the mixture was gradually diluted with distilled water. The washed crystals were dried with filter paper and placed in a drying cabinet maintained at 100 °C. 100 μ copper foils were attached on either side of the crystal with the aid of the 5Φ -2 (BF 2) adhesive and the assembly was placed between two mica plates, one of which had a re tangular aperture cut in it. This aperture is indicated by the dashed line in Fig. 2. Both sides of the crystal and foll were covered with a layer of gold (evaporated in vacuum) to a thickness of 100-200 g per cm^2 . Experiments were then carried out to determine the maximum bias which can be applied to the detector without breakdown. The better of the two sides was chosen as the working side and the detector was finally placed in a plastic holder using 'he BF-2 adhesive to keep it in position. Measurements showed that the detectors had a practically constant resolution of about 2.5% for bias voltages between about 15 and 90 volts (cm242 particles) Above 90 volts the resolution increases, reaching about 6% at about 100 volts (6 MeV). A 30% improvement in the resolution can be obtained by reducing the temperature of the detector to the Card 2/4

X

Silicon detectors for heavy

S/120/61/000/006/005/041 E032/E114

temperature of liquid nitrogen. The detector was found to be linear for a-particles between 5.3 and 8.78 MeV. A study was also made of the effect of the magnetic field on silicon p—n detectors and it was found that the amplitude of the pulses is independent of the magnetic field up to 12 kOe. Acknowledgments are expressed to G.N. Flerov for suggesting this work, to S.M. Ryvkin and his associates at LFTI AN SSSR for their advice about semiconducting devices. Acknowledgments are also expressed to I.I. Chuburkova and B.V. Fefilov.

There are 10 figures and 8 references: 2 Soviet-bloc and 6 non-Soviet-bloc. The four most recent English language references read as follows:

Ref.4: S.S. Friedland, J.W. Mayer, J.S. Wiggins. Nucleonics, v.18, no.2, 1960, 28.

Ref. 6: M.L. Halbert, J.L. Blankenship. Nucl. Instrum. and Methods, v.8, 1960, 106.

Ref.7: in text above.

Ref.8: Seventh Scintillation Counter Symposium, IRE Trans. Nucl. Sci., v. HS-7, no.2-3, 1960.

Card 3/4

33139

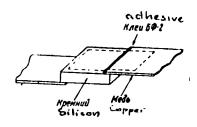
Silicon detectors for heavy charged... S/120/61/000/006/005/041 E032/E114

ASSOCIATION: Ob'yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

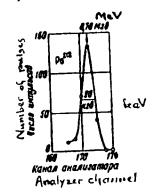
SUBMITTED: April 3, 1961

Fig. 2

Fig.5: Spectrum of Po²¹²a-particles (sensitive area of detector 0.1 cm²)



Card 4/4



IRUIN, V.A.; MIKHETEV, V.L.; SKOBELEV, N.K.

Spontaneous fission of Am²². Zhur. eksp. 1 teor. fiz. 40 mo.5:1261-1262 My '61. (MIRA 14:7)

1. Ob*spedimentally institut yadernykh issledovaniy. (Nuclear fission) (Americium—Isotopes)

POLIKANOV, S.M.; VAN TUR-SEN; KEKK, Kh.; MIKHEYEV, V.L.; OGANESYAN, Yu.TS.; PLEVE, A.A.; FEFILOV, B.V.; SARANTSEVA, V.R., tekhn. red.

[Formation of nuclei with anomalous periods of spontaneous fission in reactions with heavy ions]Obrazovanie iader s anomal'mym periodom apontannogo deleniia v reaktstiakh s tiazhelymi ionami Dubna, Obradinennyi in-tiadernykh issl., 1962. 6 p.

(Nuclear fission) (Nuclear reactions)

(Uranium—Isotopes)

POLIKANOV, S.M.; DRUIN, A.V.; KARNAUKHOV, V.A.; MIKHEYEV, V.L.; PLEVE, A.A.; SKOBELEV, N.K.; SUBBOTIN, V.G.; TER-AKOP'YAN, G.M.; FOMICHEV, V.A.

[Spontaneous fission with an angualously short period] Spontannoe delenie s anomal'no korotkin periodom. Dubna, Ob'edinennyi in-t indernykh issl. Pt.l. 1224/17 p. (MIRA 15:1)

(Nuclear fission) 196, 2.

38855

s/056/62/042/006/007/047 (2106) B104/B102

AUTHORS:

Polikanov, S. M., Druin, V. A., Karnaukhov, V. A.,

Mikheyev, V. L., Pleve, A. A., Skobelev, N. K., Subbotin, V. G., Ter-Akop'yan, G. M., Fomichev, V. A.

Spontaneous fission with an anomalously short period. I TITLE:

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,

no. 6, 1962, 1464 - 1471

TEXT: U^{238} was irradiated by accelerated Ne^{22} and 0^{16} ions from the internal beam of the 300 cm cyclotron of the OlYal. By means of an ionization chamber, spontaneous fission fragments of an unknown isotope having a half life of ~ 0.02 sec were recorded. The nucleus obtained is assumed to be in an isomeric state with spontaneous fission probability increased

(by more than 10^9 times). From experimental data the atomic number is estimated to be ≤ 100 . G. N. Flerov, Corresponding Member AS USSR, is thanked for supervising the investigation. There are 5 figures and 1 table.

Card /1/2

1:00 1.65

CIA-RDP86-00513R001134120005-4" APPROVED FOR RELEASE: 06/14/2000

S/056/62/042/006/007/047 Spontaneous fission with an anomalously... B104/B102

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: January 24, 1962

Card 2/2

POLIKANOV, S.M.; VAN TUN-SEN; KEKK, Kh.; MIKHEYEV, V.L.; OGANESYAN, Yu.TS.; PLEVE, A.A.; PEPILOV, B.V.

Formation of nuclei with anomalous periods of spontaneous fission in reactions involving heavy ions. Zhur. eksp. i teor. fiz. 44 no.3: 804-807 Mr 163. (MIRA 16:3)

1. Obwyedinennyy institut yadernykh issledovaniy.
(Nuclear fission) (Nuclear reactions)(Ions)

L 17338-63 EWI(1)/EWI(m)/BDS/ES(w)-2 AFFIC/ASD/ESD-3/AFVIL/IJP(C)/SSD Pab-4 ACCESSION NR: AP3004883 S/0120/63/000/004/0027/0030 7/ AUTHOR: Kekk, Kh.: Mikheyev, V. L.: Pleve, A. A.: Fefilov, B. Y. TITLE: Measuring heavy-ion energy in the internal beam of a cyclotron 4 SOURCE: Pribory*i tekhnika eksperimenta, no. 4, 1963, 27-30 TOPIC TAGS: cyclotron, cyclotron measurement;, heavy ion, heavy-ion energy ABSTRACT: Ion energy is measured by means of silicon surface-barrier detectors. Scattered by a thin foil at a definite angle, the ions are recorded along with alpha-particles of known energy. The amplitudes of the resulting pulses are compared with the amplitudes of the generator pulses that are fed into the input of a transistorized pre-amplifier operating in an 18-kilooersted-strong magnetic field. The overall error in determining initial ion energy does not exceed 2%; it is largely due to the GI-2A pulse generator. The energy measuring method is claimed to be convenient for use in apparatus intended for investigating some	en e						ī
ACCESSION NR: AP3004883 S/0120/63/000/004/0027/0030 AUTHOR: Kekk, Kh.: Mikheyev, V. L.: Pleve, A. A.: Fefilov, B. Y. TITLE: Measuring heavy-ion energy in the internal beam of a cyclotron of source: Pribory*i tekhnika eksperimenta, no. 4, 1963, 27-30 TOPIC TAGS: cyclotron, cyclotron measurement:, heavy ion, heavy-ion energy abstract: Ion energy is measured by means of silicon surface-barrier detectors. Scattered by a thin foil at a definite angle, the ions are recorded along with alpha-particles of known energy. The amplitudes of the resulting pulses are compared with the amplitudes of the generator pulses that are fed into the input of a transistorized pre-amplifier operating in an 18-kilooersted-strong magnetic field. The overall error in determining initial ion energy does not exceed 2%: it is largely due to the GI-2A pulse generator. The energy measuring method is claimed to be convenient for use in apparatus intended for investigating some.							
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TOPIC TAGS: cyclotron, cyclotron measurement; heavy ion, heavy-ion energy ABSTRACT: Ion energy is measured by means of silicon surface-barrier detectors. Scattered by a thin foil at a definite angle, the ions are recorded along with alpha-particles of known energy. The amplitudes of the resulting pulses are compared with the amplitudes of the generator pulses that are fed into the input of a transistorized pre-amplifier operating in an 18-kilocersted-strong magnetic field. The overall error in determining initial ion energy does not exceed 2%: it is largely due to the GI-2A pulse generator. The energy measuring method is claimed to be convenient for use in apparatus intended for investigating some	i '			A			
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AUTHORE	Polikenov. S. M., Wang T'ung-Seng, Keck, Ch., Wikhevey. V. J., Gganesyan, Yu. Ts., Pleve, A. A., and Pefilov. B. V.	
TITLE:	Formation of nuclei with an anomalous spontaneous fission [9]	
PERIODICAL:	Zhurnel eksperimental noy i teoreticheskoy fiziki, v. 44, no. 5, 1963, 804-807	
lifetime rep V. L. Mikhey and V. A. Fo times and th ions and of setup was th	nuing the work on spontaneous fissions with anomalously short decay nuing the work on spontaneous fissions with anomalously short decay nuing the work on spontaneous fissions, V. A. Druin, V. A. Karnaukhov, orted earlier in Ref. 1 (S. M. Polikanov, V. A. Druin, V. A. Karnaukhov, ev, A. A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. Pleve, N. K. Skobelev, V. G. Subbotin, G. M. Ter-Akopyan, ev, A. Druin, V. A. Druin, V. A. Karnaukhov, ev, A. Druin, V. A. Karnaukhov, Ev, A. Druin, V. A. Karnaukhov, ev, A. Druin, V. A. Druin, V. A. Karnaukhov, ev, A. Druin, V. A. Druin, V. A. Karnaukhov, ev, A. Druin, V. A. Druin, V. A. Karnaukhov, ev, A. Druin, V. A. Druin, V. A. Karnaukhov, ev, A. Druin, ev, A. Karnaukhov, ev, A. Druin, ev, A. M. Ter-Akopyan, ev, A. Druin, ev, A. M. Ter-Akopyan, ev, A. Druin, ev, A. M. Ter	
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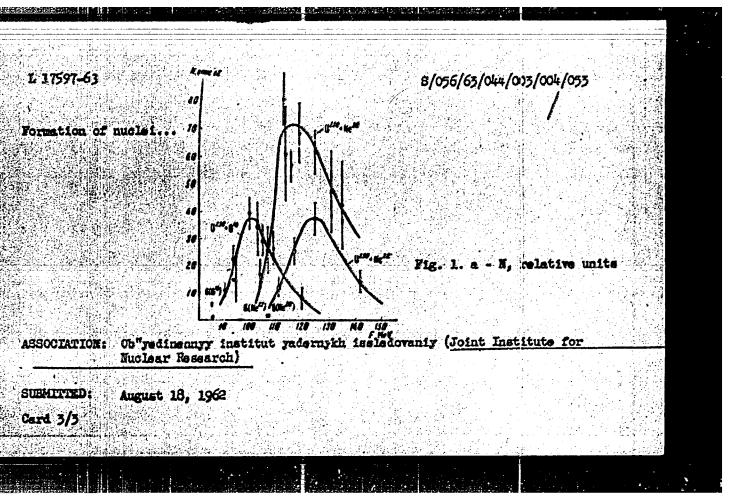
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Formation of nuclei...

previously advanced essumption (Ref. 1) that the fissions occur from some isomeric states of Z < 97 elements. In the case of Ne and O ions they assume the existence of transfer reactions. The investigation was led by Prof. G. N. Flarov. There is I figure and I table.

Table 1

Reactions	Cont Bra	fleet On fleet Men	Clase t 166mg	
Number of pulses in		130 239	19	
the first chamber Number of pulses in		28 30	(6	
the second chamber Celculated value for	15, 6 ±2,8	14,3±1,0 0,7±0,8	12,8±2,1	
Ti, mee Note: The decay life represent certain ave	time, obtained	d from only two	ionization chamb	ers may actually
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FLEROV, G.N., POLIKANOV, S.M.; GAVRILOV, K.A.; MIKHEYEV, V.L.; PERELYGIN, V.P.; PLEVE, A.A.

Formation of spontaneously fissioning isomers in reactions involving \(\frac{\phi}{\phi}\)-particles and deuterons. Zhur. eksp. i teor. fiz. 45 no.5:1396-1398 N '63. (MIRA 17:1)

1. Ob"yedinennyy institut yadernykh issledovaniy.

POLIKANOV, S.M., kand.fiz.-mstem.nauk; MIKHEYEV, V.L.

New type of nuclear fission. Priroda 53 no.6:70-73 '04. (MIRA 17:6)

1. Ob*yedinennyy institut yadernykh issledovaniy, Dubna.

L 33757-66 EWT(m) ACC INR. APOO25838 SOURCE CODE: UR/0089/66/020/003/0230/0232 AUTHOR: Zager. B. A.; Miller, M. B.; Hildneyov, V. L.; Polikanov, S. H.; Sukhov, A. M.; Flerov, G. N.; Chelnokov, L. P. ORG: none TITLE: Properties of the 102 sup 254 isotope SOURCE: Atomnaya energiya, v. 20, no. 3, 1966, 230-232 TOPIC TAGS: isotope, cyclotron, half life, particle physics ABSTRACT: Isotope 102254 has been produced on the external beam of the 150 centimeter Offal cyclotron following the Am245(N15, 4n)102254 reaction. It was established by recording the X-decay of the primary and daughter nuclei that the half-life of this isotope is within the 20-50 sec interval, while the energy of the emitted of particles is equal to 8.10-0.05 MeV. The new results are in disagreement with the data found in literature $(T_1/2 = 3 \text{ sec},$ and $E_{\alpha} = 8.3 \text{ MeV}$). The authors thank the collective that worked on the accelerator: A. F. Linev, I. A. Shelayev, and V. S. Alfayev for checking the efficiency of the cyclotron; K. A. Gavrilov for preparing the target, which was stable under very intense beams; and V. A. Chugreyey for carrying out the construction work. They also thank Doctor of Physicomathematical Sciences I. G. Gwrdtsitell, who provided the isotope N-5; V. I. Kuznetsov, A. G. Smirnov-Awrin, and A. G. Kozlov, who guaranteed the receipt of Am for the target. Finally, they thank A. G. Belov, V. I. Ilyushch. I. Nikolayev for help in conducting the experiments. Orig. art. has:
18, 20 / SUBM DATE: 15Dec65 / ORIG REF: 006 /OTH REF: 005 *5*46.799.92

MIKHE V, V.M.

Vtoraia zhizn'instrumenta. (Moskva)

Moskovaskii bol'shevik, 1943. 47 p. illus.

Second period in the utilization of an instrument.

DLC: TJ1185.ML9

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

MAKAREVICH, B.K.; MIKHEYEV, V.M.; TIKHVINSKIY, V.I.; PANKIN, A.V.,
doktor tekhn. mauk, retsenzent; FEDOROV, V.N., dots.,
retsenzent; MAKOVSKIY, G.M., red.; AHMOVA, Ie.S., tekhn.
red.

[Reconditioning metal-cutting tools] Vosstanovlenie resimshobego instrumenta. Moskva, Gos. nauchmo-tekhn. izd-vo
machinostroit. lit-ry, 1948. 174 p. (MIRA 15:4)
(Metal-cutting tools—Maintenance and repair)

9(5) PHASE I BOOK EXPLOITATION SOV/3176

Problemy kibernetiki, vyp. 2 (Problems of Cybernetics, Ro. 2) Moscow, Fizmatgiz, 1959. 323 p. Errata slip inserted. 18,000 copies printed.

Ed.: A. A. Lyapunov; Compilers-Editors: O. B. Lupanov, B. Yu. Pil'chak, S. V. Yablonskiy, and Yu. I. Yanov; Eds.: A. A. Konoplyankin, and M. L. Smolyanskiy; Tech. Ed.:

S. N. Akhlamov.

PURPOSE: The purpose of this collection of articles is to organize scientific papers on cybernetics and to unite the efforts and interests of Soviet scientists working in this field.

COVERAGE: This is the second volume of "Problemy kibernetiki", dealing with problems of biology, mathematics and engineering as they relate to cybernetics. The first volume, which appeared in 1958, considered problems of programming, machine translation and computer design. Future volumes propose to include a still greater number of subjects related to cybernetics. The editors list 5 recent Soviet books (including 2 translations) dealing

Card 1/11 4

CIA-RDP86-00513R001134120005-4" **APPROVED FOR RELEASE: 06/14/2000**

Problems of Cybernetics (Cont.) SOV/3176 with cybernetics. They thank the following persons for their help in preparing the book for publication: G. V. Vakulovskaya, T. L. Gavrilova, A. A. Muchnik, B. I. Finikov, M. L. Tsetlin and V. S. Shtarkman. References follow each article. TABLE OF CONTENTS: From the Editors 5 PART I. GENERAL PROBLEMS Yablonskiy, S. V. (Moscow). Basic Concepts of Cybernetics 7 Uspenskiy, V. A. (Moscow). Problem of Developing a Machine Language for an Information Machine 39 The author discusses problems of introducing automation in the process of searching and retrieving of uniform information on a specific subject in any field of human knowledge. Considering the rapid growth of material, existing methods (catalogs, bibliographies, etc.) are insufficient, inaccurate and too slow. In order to create an information machine to Card 2/12

Problems of Cybernetics (Cont.)

SOV/3176

perform these functions, a universal, abstract machine language must be created. The author discusses the ideas of various authors on this subject. There are 14 references: 9 Soviet (5 are translations) and 5 English.

Kaluzhnin, L. A. (Kiyev) Algorithmic Expression of Mathematical Problems

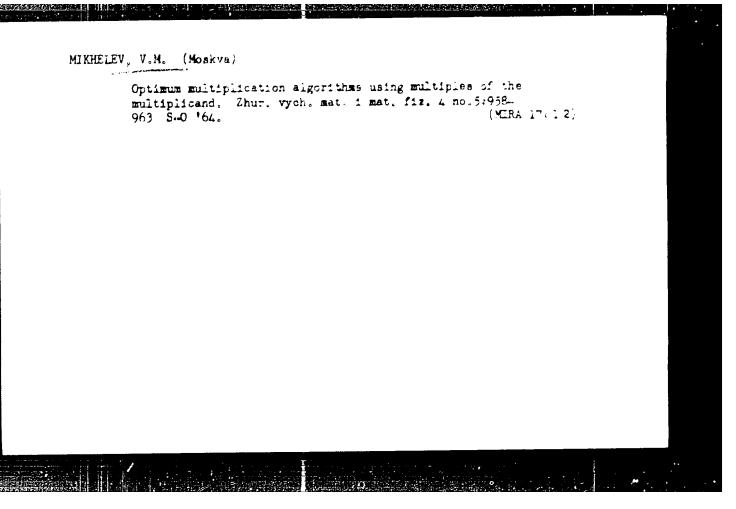
51

The author reports on the work of two seminars in Kiyev: one at the Institute of Mathematics, Academy of Sciences, USSR, under the supervision of V. S. Korolyuk and Ye. L. Rvacheva-Yushchenko on automatic programming ("programs that program"), the other at Kiyev State University, under the supervision of the author on the theory of algorithms and mathematical logic. The aim of both seminars is to find general methods of preparing mathematical and logical problems for processing and solving in modern high-speed computers. There are 7 references: 5 Soviet (1 is a translation) and 2 English.

Mikheyev, V. M. (Moscow). On Sets Containing the Largest

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<u>itting establish sitt. Production to english and electroscopia</u>	e de la companya de l	takukter (tahusususususus () () () () () () () () () (
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PART	II. THEORY OF CON'	TROL SYSTEMS	
Yablonskiy, S. V. (M Encountered in the S	oscow). On Algoria ynthesis of Minimum	thmic Difficulties n Switching Circuits	75
Card 4/12			



REPUTUN, N.I.; AL'PEROVICH, D.I.; MIKHEYEV, V.N.; SHNEYDER, V.G.

Development of a method for expert testimony in alcoholic intextionation. Zhur. neyr. i psikh. 60 no.11:1523-1528 '60. (MIFA 14:5)

1. Kafedra sudebnoy meditsiny (zav. - prof. A.P.Kurdyumov) 1 psikhiatrii (zav. - prof. D.S.Ozeretskovskiy) I Leningradskogo meditsinskogo instituta imeni I.P.Pavlova. (ALCOHOLISM)

