

ZAHRADNIK, R.; BOCEK, K.

Infrared spectra, kinetics of reduction and polarography of arc stic polynuclear nitro compounds. Coll Cz Chem 26 no.7:1733-1748 Jl '61.

1. Institute of Industrial Hygiens and Occupational Diseases, Prague.

(Spectrum, Infrared) (Reduction, Chemical) (Nitro compounds)

L 23674-66 ACC NR: AP6009353 (A) SOURCE CODE: CZ/0078/65/000/011/0015/0015	
AUTHOR: Bocek, Karel (Praha); Urban, Jiri (Satalice)	
ORG: none	
TITLE: Detachable <u>respirator</u> unit with special valves. CZ Pat. No. PV 658-65, Class 30a	
SOURCE: Vynalezy, no. 11, 1965, 15	
TOPIC TAGS: respirator, life support equipment	
ABSTRACT: An Author Certificate has been issued for a detachable system designed with adjustable respiration terminals. It is equipped with inhalation and exhalation valves and a detachable exhalation line which also serves as a draining line. The valve on the latter is of a torroidal type made to move vertically, and equipped with a weight for	
balancing. [KP]	
SUB CODE: 06/ SUBM DATE: 30Jan65/	
Cord 1/1 #	2

Czechoslovakia

-17 1

cz/0078/65/000/011/0015/0015

Bocek, Karel (Praha); Urban, Jiri (Satalice) AUTHOR:

ORG: none

TITLE: Detachable respirator unit with special valves. CZ Pat. No. PV 658-65, Class 30a

SOURCE: Vynalezy, no. 11, 1965, 15

TOPIC TAGS: respirator, life support equipment

ABSTRACT: An Author Certificate has been issued for a detachable system designed with adjustable respiration terminals. It is equipped with inhalation and exhalation valves and a detachable exhalation line which also serves as a draining line. The valve on the latter is of a torroidal type made to move vertically, and equipped with a weight for balancing. [KP]

1/1

"APPROVED FOR RELEASE: 06/09/200

CIA-RDP86-00513R000205710010-5

ACC NRI APSOOLOGO	SOURCE C	ODE: CZ/OC	081/65/090/	002/0209/	0213
AUTHOR: Bocek, Leo-Bochek, L. (Prag			ague)	32	e e se
ORG: none	44.5		· · · · ·	B	
TITIE: Total differential geometry o	f curves in E	uclidean s	ace		an ta
SOJRCE: Casopis pro pestovani matema		المراجع المراجع المراجع المراجع			
TOPIC TAGS: Buclidean space, differe			•	<u></u>	t war
space geometry	HOTAT REOMECL	A) curve Be	omeera, br	arie Rentile	01 y 9
applied for the derivation of results of plane closed convex curves. Orig. SUB CODE: 12 / SUEM DATE: 09Jun64	art. has: 1			propertie	8
이 같이 있는 것은 것을 많이 있는 것이 같아요. 같은 것이 같아.					
그는 그는 것은 것은 것은 것은 것이라. 것이라.			1997 - Sec. 19		

LENFELD, J.; KROUTIL, M.; BOCEK, M.; CTVRTNIK, J.; MAYER, J.

Toxicity and anti-inflammatory effects of chlorocrotylpyrazolidine. Cesk. fysiol. 9 no.1:87-88 Ja 60.

1. Farmakologicky a histologicky ustav lek. fak. PU a Farmakon, n.p., Olomouc.

(PHENYLBUTAZONE, rel. cpds.)

.= ...

.

BOCEK,	\mathcal{M} .	E
CZECHOSLOVAL	av/2011	d State Physics - Crystal Morphology. E
Abs Jour		Ref Zhur Fizika, No 1, 1960, 1125
Author	:	Bocek, Michal; Kratochvil, Petr; Valouch, Miloslav
Inst		Physics Institute and Faculty of Solid State Physics, Charles University, Prague, Czechoslovakia
Title		Fibrous and Ribbon-like Substructure of Single Crys- tals of Zinc, Obtained by the Czochralski Method
Orig Pub	:	Ceskosl. casop. fys., 1958, 8, No 5, 521-525
Abstract	:	A study was made of the fibrous substructure of metal- lic single crystals, grown from a melt. The single crystals grown under drfinite conditions are made up of fibrous of hexagonal cross section, arranged appro- ximately parallel to the direction of the growth of the crystal. Under definite growth conditions these fibers form ribbons, placed parallel to each other.
Card 1/4		- 53 -

Е

CZECHOSLOVAKIA/Solid State Physics - Crystal Morphology.

: Ref Zhur Fizika, No 1, 1960, 1125

Abs Jour

The dependence of the transverse dimensions of the fibrous substructure on the conditions of the growth coincides with that obtained by other authors. The dependence of the thickness of the ribbons on these factors is the same as for the fibrous substructure. The effect of orientation of the single crystals on the dependences given manifest itself more strongly in the region of ribbon-like substructure. It can be assumed that the machanism, which according to Rutter and Chalmers (Canadian Journal of Physics, 1953, 31, 15) is the cause of the fibrous substructure, takes place also in the occurrence of ribbon-like substructure. According to this theory, a layer of concentration supercooling takes place near the hardening boundary. The diffusion of impurities, caused by concentration differences in this layer, decides essentially the magnitude of the transverse

Card 2/4

E

CZECHOSLOVAKLA/Solid State Physics - Crystal Morphology.

: Ref Zhur Fizika, No 1, 1960, 1125

Abs Jour

dimensions of the substructure. Under growth couditions that give rise to a ribbon substructure, the effect of the zone of concentration supercooling is less than under conditions in which the fibrous substructure occurs, and therefore the effect of crystallographic anisotropy appears in a greater extent. This probably causes a radial anisoptrpy of the diffusion of impurities in the vicinity of the nuclei. The latter are unified in rows in definite directions and ribbons of this substructure occur as a result. The effect of anisopropy changes with its orientation relative to the boundary layer of the growing crystal and melt, and this manifests itself in the observed influence of the orientation on the transition from the fibrous substructure into ribbon-like and on the thickness of the produced ribbons. For a deep understanding of the mechanism of production of ribbon

Card 3/4

- 54 -

. . CZECHOSLOVAKIA/Solid State Phylos - Crystal Morphology. Е : Ref Zhur Fizika, No 1, 1960, 1125 Abs Jour substructure it is necessary to have more detailed data on the influence of lattice orientation unit. 1 Card 4/4

-____ł

ACCESSION NR: AP4013555

0/0030/64/004/002/0325/0342

AUTHOR: Bocok, M.; Kaska, V.

TITLE: The dependence of the hardening curves of zinc crystals upon orientation and temperature

......

1

4

 \mathbf{e}

t.

;.

SOURCE: Physica status solidi, v. 4, no. 2, 1964, 325-342

TOPIC TAGS: zinc crystal hardening curve, orientation, temperature, cubic facecentered metal, cross-slippage, thickly packed metal, crystal deformation

ABSTRACT: The paper discusses the dependence on orientation and temperature in the hardening curves of zinc crystals. Dependence on orientation in stage A is ascribed to the activation of accessory slippage systems. Dependence of the end of stage B on temperature is due to the same processes as in cubic face-centered metals, i.e. cross-slippage of the screw displacements. These studies have produced further indications of far-reaching similarities in the deformation process in the most thickly packed metals, and it may be assumed that the conditions are similar for other metals of this sort and that any possible differences lie essentially in the position of the axis. There are sections on "Production of

1:

Cord 1/2

CIA-RDP86-00513R000205710010-5

ACCESSION NR: AP4013555

crystals," "Crystal deformation," "The dependence of some indices of the hardening curves on temperature," "Dependence on orientation," "Dependence on temperature," "The transition from 'ductile' to 'brittle'". Original has 1 equation, 26 graphs, 2 diagrams, 2 tables and 1 photo.

ASSOCIATION: Lehrstuhl fuer Festkoerperphysik der Mathematisch-Physikalischen Fakultaet der Karlsuniversitaet, Prague(Chair for Solid State Physics of the Mathematics and Physics Department of Karl University)

SUBMITTED:	22Nov63	DATE ACQ: 03Mar64	ENCL:	00
SUB CODE:	PH	NO REF SOV: 000	OTHER:	029.

Card 2/2

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5"

CIA-RDP86-00513R000205710010-5



AUTHORS:	G/030/62/002/009/004/004 Boček, N., Kratochvil, P., Lukáč, P. (Czechoslovakia)
TITLE:	The effect of impurities on the critical resolved shear stress of mind single drystals represented by the solidi, v. 2, no. 9, 1962, 1221-1224
effect of stress, th authors gi previously microsegre a dislocat the critio purity is many autho solutes:	y measurements i. These performed to explain in detail the many parameters of the value of the critical resolved shear e effect of impurities being of the greatest interest. The we a more detailed discussion of this subject than has appeared. It is assumed that during crystal growth a gation takes place which is connected with the existence of ion metwork. From this point of view the relation between al resolved shear stress of zinc single crystals and their investigated. For the evaluation the measurements made by ors on zinc single crystals were collected. Only those with that are soluble in the used range, i.e. they form solid and that have known equilibrium distribution coefficients
Gard 1/2	

N

6/030/62/002/009/004/004

The effect of impurities on the critical ...

are considered. The results: a) the square root dependence of τ , the critical resolved shear stress, on ρ , the density of dislocations, and b) the good value of the constant 2.6 in $\tau = 2.6 (\sqrt{\rho})^{0.94}$, support the interpretation of the indirect effect of impurities on the critical resolved shear stress. Further calculations have shown that some other metals behave in the same manner. The authors thank Dr. E. Klier for many valuable comments on this work. One figure and one table are included.

ASSOCIATION: Department of Solid State Physics, Charles University, Prague

SUBMITTED: July 9, 1962

Card 2/2

CIA-RDP86-00513R000205710010-5

CZECH/37-59-2-15/20

AUTHORS: Michal Boček, Petr Kratochvil

Letter to the Editor: Dislocations in Zinc Single TITLE: Crystals with Elongated Cells

PERIODICAL: Československý Časopis Pro Fysiku, 1959, Nr 2, pp 214-215 + 1 plate

ABSTRACT: Recently a number of mechanisms have been discussed (Refs 1-6) which can lead to the formation of dislocations during crystal growth. A new mechanism was proposed by Tiller (Ref 7), using micro-segregation of impurities. The boundary between a fibrous and a band sub-structure is a region rich in impurities (k \angle 1). Due to such an inhomogeneous distribution of impurities, a lattice distortion in the vicinity of the segregation occurs. This distortion can be relieved by the formation of dislocations. Eq (1) (Ref 7) gives the density of dislocation lines perpendicular to the boundary between dislocation lines perpendicular to the boundary between the crystal and the melt. With a view to Tiller's model, we have measured the density and arrangement of dislocations in zinc crystals. The crystals, with a Card cross-section of 1 mm^2 , were grown by the Czochralsky method. They contained 2.2 x 10^{-2} at.% of cadmium. 1/2

3

CIA-RDP86-00513R000205710010-5



APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5"

BCCEK, Michal

Microgramular structure of the crystals of metals. Pokroky fys pev lat 3:69-100. 156

1. Fysikalni ustav Karlovy university, Praha.

BOCEK, Otto

Pomologie. (Pomology; a textbook for agricultural training schools on gardening. 3d ed. illus., bibl., index, notes) Prague, SZN, 1957. 208 p.

Bocek's book is already well known as a successful manual for Cz. fruit gardeners. It has been written for practical purposes and based on practice. The general part contains information on the principles of pomology and identification of species. The special part contains description of 580 types current in Czechoslovak fruit gardening. The third edition, intended mainly for the agricultural schools, contains some changes in illustrations (black and white photographies in a separate supplement, new texts).

Bibliograficky katalog, CSR, Ceake knihy, No. 30. 3 Sept 57. p. 652.

CZECHOSLO	WAKIA/Optics - Fhysical Optics	K-5
Abs Jour	: Ref Zhur - Fizikr, No 1, 1959, No 1943	
Author Inst Titlo	: Bocck V. :	cl tion
Orig Fub	: Jorna moch. c opt., 1958, 3, No 3, 76-77	
Λbstrct	* The cuthor considers the undesirable coloring of the imported systems, obtained when the spectral transmission the used glass is supplemented in an unfromeble memory collective transmission of the usually employed anti-reflection films. It is shown that by: suitable choice of the parameters of the anti-reflection films, which differ so what from the ordinary ones, it is possible to correct the color of the image without hermfully reducing the total transmission.	n of by Loc- xto- the
Cerd	: 1/1	ις.

CZECHOSLOVAKIA/Optics - Optical Technology.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 14047

> enterprise. Identical elements of the table are located in steps at five different distances from the objective, and therefore one obtains on one photograph five images with different degrees of defocusing. In the middle and on the edge of the table are located photometric wedges for determining inhomogeneities in illumination in the plane of the image. Ideas are stated concerning the desirable improvement to the procedure. -- Ye. Yakhontov

Card 2/2

-

BCCEK, V.

TECHNOLOGY

periodicals: JEMNA MECHANIKA A OPTIKA Vol. 3, no. 10, Oct. 1958 BOCEK, V. Stabilizing roll film in cameras. p. 328.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 5 May 1959, Unclass.

	$\frac{1.56717-65}{EWP(k)/EWP(k)/EWP(k)/EWT(k)/EEC(k)-2/EWP(1)/EEC(t)/T/EEC(b)-2/-}{EWP(k)/EWA(k)-2/EWA(h) Pm-4/Pn-4/Pc-4/Pt-4/Pcb/Pi-4/Pl-4 SCT3/IJP(c)}$
' <u>.</u>	WG/WH ACCESSION NR: AP5003631 CZ/0030/65/000/001/0605/0006 [,1] 535,37:533.891
!	AUTHOR: Bocek, V. (Engineer); Kment, V. (Engineer) 15
	TITLE: Interference measurement of the homogeneity of ruby resonators for lasers
L	SGURGE: Jemna mechanika a optika, no. 1, 1965, 5-6
:	TOPIC TAGS: <u>ruby laser</u> , ruby resonator, resonator homogeneity, homogeneity meas- urement, laser production control, interferometric contro., interferogram, stimulated emission
	ABSTRACT: The authors describe their experience with the interferometric control of the homogeneity of ruby rods used as resonators in lasers. They used an Askania IG 140 interferometer adapted to a Michelson interferometer, the 6438 A line of a cadmium low-pressure discharge tube, and a Ne-Me laser with a wavelength of 328 A as the source. The advantage of this method is that there is greater con- trast of interference, greater emphasis on all the impurities and defects in the crystal as a result of their diffraction, and linear polarization of the laser beam used for the examination of anisotropic material. The interferograms illus- trated in the article show that defects affect the frequency direction of the
	Cord 1/2

.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000205710010-5"

01.025

her and that the quality	of the ruby increases, in term	as of internal homogeneity
as the circles acquire gre	ater contrast and sharper cont	cours. Orig. art, has: [08]
11 figures.		
ASSOCIATION: /Bocek/ Usta	v pristrojova techniky CSAV, 1 ent7 Spolek pro chemickou a hu	Prno (Institute of Build-
(Chemical Manufacturing Co	mpany)	toni vyrobu, obbi n. 25
SUBMITTED: 24 Sep64	ENCL: 00	SUB CODE: EC
BURMITTED: 24 Septa		
NO REF SOV: 002	CTHER: 009	ATD PRESS: 4036
		•
		•
and the second	ارد. در دان بر در بر در بر در بر در بر می در بر می در بر می در بر در بر از در در دان در بر در بر در بر بود بر بوشی بر بر می در بر می می در بر می در بر	الكشرية أربيس فيدرجنا فيفاظ بيانينا فارار الارابا

	15	Ũ	CAL	<u>C</u> K	59	V							<u>_</u>						ñ				
			N-15 17 oute of means () printed.	47, Ca-	•	stice ru-	a martes at harites at h Induced h Induced h Induced				ition 370			¥ ع ۲	H	84	8	014	\$,	ŝ		1 1 1 1	
	8064/JJ28	Massar, 1960.	Multimatriculary simpoits po subtracolstilyturoy inits!, 5539, Nosire, 14-15 fyunya 1950 gi dollary 1 avtoritersy. Scitziya II. (Itstentioual Supposits on Marturolariur Chaitery Said in Noscov, June 14-15; Papers and Sumaries) Section II. (Noscov, Itd-ro MI SS38, 1950) 559 p. 5,50 copies printed.	brows arting Agracy: The International Duiton of Pure and Applied Chemistry, Con- Mission on Macronolecular Chemistry		WINCE: This book is intended for chemists interested in polymerization ru- actions and the synthesis of high-solacular compounds.	TRAUE: This is Section II of a multivalue vort containing papers on macro- molecular chemistry: The propers in this volume treat satisfy the kinetics of various polymerization reactions initiated by different catalysts or induced by radiation. Jacon the research techniques (inclusived are also introperior recommon spectromory and light-centering interpolation. The are are and in Drylin proved and Martan. To personalities are mentioned. Mathe- ense in Drylin and Laboration. To personalities are mentioned. Mathe-	Mintl. R. and J. Serieorici (Ranada). On the Nechaniza of the Constitue Resettion for Streaments: Polymony	action on	Elastics of It	Bodit, T. (Casthonioratha). Esterogramous Catalysts for the Polymerization of Lights Olafian	Yeesty. E. J. Aubrit, 2. 11113, and O. Barith (Geechodornaka). The Effect of Douor Trye Injurities on the Polyaritation of Proylens. Catalysed, D. De Dyrke, Eitening, Triducideritedhyledisaina Dologylock. Bak (UNR). Suby of the Pectors Leeding to the begredetion of Chain Structure During the four 8 Palyasitation of Massa	Jerusalizatty. B.L., Yang Yo-sung, and A.P. Karmaraho (1868). Study of the Interaction of Organizations (argonada Vili.Salis of Serry Metals and the Des of Organization Corporada and Defr Corplanes to Stimulate	routerristicion secto I., and E. (surgery). The Biffect of Organic Huner Complexes 25 Soon View of Variable Valence on the Electics of the Polymerisation They I Compounds	Rrwier, S.Ye., W.J. No serisiti, <u>I. Te. Poli</u>unt, and Obin Kuang-i (1000). Study of Scan Details of the Mechanism of Polymerisation Under Mar Action of Compiler Citalynts	((12520) ·		A (USSR). Effecte	9	•	ritetion lar		
	AFTON	try. Nose	11411, 835 (Interna • 11-18; 7 559 9- 5,	WY PER YAN		terested fr mpounds.	rork contai us treat an different Listuased therpolatic	lechani an	ce of a R	ovalda). us Catalys	В В В	echoslovak 100 of Pro Dyl-elusion Manes of Disnes	ito (USER). • of Beary •• to Btimu	ande Inner of the Pol	Polymeriza	d. Outer	(10550) - T	. Marting	tion Proce	Clastics &	ale Polymeris • of Respolar •	÷.,	
	NUASE I BOOK RUPLOTINEION	isternational symposium on mearumolecular chanistry.	mirarnov k ktaiya II. foscov, Jun E. 1960]	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		benists in olecular of	tivolume this volume itisted by echniques d stiering is	5	On the Minetics of a Reaction on	<u>Michierle. O., M. Marti, and I. Treinral</u> (Ceencelowice). El the Polymerization of ischutylane on a Meterogeneous Catalynt	ous Catalys	Berfik (Cs Polyneriset aride-Iriet ectors Less merisetion	.F. Karune With Salts ir Complete	fact of On Elbertice	Poldubary. chanies of	tee of Pol	Pritem.	(B) Kin, A.P., Shamker, N.K. Yakoview, and L.P. Mahirone (1938). On Carbonium and Carbanion Polymeritation Nechanisms Under the Effects and Data Failure from the Carbonian Science Science and Carbonian Science and Car	Fulparisation Processe in	remented by <u>the support</u> of <u>AFR-</u> (Caechoolewide). Election of the Polymeriantico of formalization			2
	A I SNY	Morceol.ec	Matroada Cerety So Esid in J	Checkman (and for a	I of a mul- pepers in actions in research o i light-so d light-so	(Rumata)	ary). Ca	I. Tretora	le te rogene	La and O. 19 on the J 1 on the J 7 of the 7 Jours Foly	ung, and A Compounds ds and The). The Mr	L L Te	R.N. Bart	Vethoda of	C. Yaborle	- (1953) -		lovakia). Iovakia). Isation of		i
	•	postun on a	FJOLINE DO 7 1 AVIONAL Chemistry Loscow, Ind	The Inter remolecular	andora.	ok is inte synthesis	Section I stry: The itation ru itation ru itation ru itation ru itation ru	lericorfet of Sterior	Siace, A., and G. Gynes (Hugary). Jeigher Catalysis	eret, and) of Ischuty	orekta). I	d, R. Vill e Inpuritie thes Ricent UR). Stud Wring the	Veng Po-e compestum un Compon	(Sungary	Koneritaly Se Detella X Catalynti	Magerik,	Ta. Got Lib	anter N.I	Larra V.A. and Y.A. Fabager (USSR). Isoluble Molecular Dispersions		ia (Caechos is (Caechos is Polymer	•	
-		itonal aye	rodayy si gi doklady olecular om II. (ng Agency: on on Macz	fech. M.: T.A. Fraskors.		<pre>" Into is if Into there is yourner; if ation in Bugitation failor em.</pre>	Level J.	and 0. G	De N. N.	(Csechosl) Nafiar	Denor Type Denor Type D.A. (US Lancture D	LT. B.L.		Te., K.I. udy of BG of Complet	Tolty and	LIT of Pol	A.P. Shi	A. and V locuter	of Form	compounds in the Cationic Poly	. <	
•		Internet	1969 1969 1999	Byome or f. Edited	Tech. Rd	FURDORLY Action	CONTRACT: Anotecution Personal Personal Personal	Minail. R	Stam Ar	Victurie the Polyne	befet. T.	Tret of Errect of Catalyred Olymitor	erusita stractio	Tarl Con	rester, 5. USOR), 5: be Action	Larsonpect	Irehtern.	bitta A.D. a Carbonia	anotuble	The F.	and in the		
		•	• .			<u> </u>						7		- 618 F	H C 3	65		301					
À	-							• • • • • •							<u></u>							<u> </u>	

HACENDINGS-

BOCEK, Vl., inz.

÷.,

Temperature changes in the prism monochromator. Jemna mech opt 8 no.10:304-306 0 '63.

1. Ustav pristrojove techniky, Ceskoslovenska akademie ved, Brno.

	a se in transmission de la contraction
ACCESSION NRI AP3003661	2/0055/63/013/006/0459/0470
AUTHOR: Vavrouch, D.; Bocek, V.	
TITLE: Some optimum parameters of Golay	detector of infrared radiation
SOURCE: Chekhoslovatskiy fizioheskiy zhu	mal, v. 13, no. 6, 1963, 459-470
TOPIC TAGS: infrared spectroscopy, Golay mirror, flexibile mirror deflection, infr	y detector, pneumatic detector, flexible rared radiation
analysis of the themal, phenmatic, and of account being taken of the method of indi ror and under the assumption that the det	ity of the pneumatic detector based on the ptical parts of the instrument is derived, icating the deflection of the flexible mir- tector has only time constant and that it me form as is valid for a "flat cell." The and the optimum gas pressure in the detector
cell are calculated from the relation de	rived. The resultant expressions for the
given), who did not take into considerat. of the flexible mirror. Orig. art. hose	ion the method of indicating the deflection 4 figures and 31 formulas.
Card 1/2	



الموارية، هلي الأربية الإربارية بالإستانية الإستانية ، وروب محدث مربعة الأست المستحدث المستان الذارين المارين ا

	1	
•		
	ACCESSION NR: AP4016947 Z/0030/64/000/002/0038/0042	
	AUTHOR: Petru, F. (Engineer); Bocek, VL (Engineer); Krsek, J. (Engineer); Popela, B. (Engineer)	
	TITLE: Construction and technology of a helium-neon laser	
	SOURCE: Jamna mechanika a optika, no. 2, 1964, 38-42	
	TOPIC TAGS: laser, resonator, helium emission, neon emission, helium spectrogram, neon spectrogram, stimulated emission, high frequency generator	
	ABSTRACT: The authors describe the construction and technology of a con- tinuously emitting He-Ne (9:1) laser. A resonator was used consist- ing of two concave mirrors 50mm in diameter (radius of curvature - 800 mm) with 13 dielectric interference layers for a maximum reflective capacity at a wavelength of 1.1523 μ m. The setup for measuring the emission spectra is described. Three different shapes of tube were tested, differing in length, diameter, gas pressure and the angle of closure. The first sign of stimulated emission was achieved with spherical mirrors at a distance of	•
	860 mm; it appeared as a new emission line at a wavelength of 1.15μm. Various frequency patterns ware observed, and the most typical ones were photographed; some of these photo- graphs are reproduced in the paper. "In conclusion, the authors thank M. Rubes, K. Stefka 1/2 Cord	

1

. .

•				•			
	•	4 - L		· • · · · · · · · · · · ·	• •. • • •		- -
ACC	ESSION NR: A	P4016947	1				•
the l	high frequency	leveloping the te generator, R. (urements." Orig	Chudoba for wo	ork on the optic	al bench and C	or work on . Moudry for	1 1 1 1
ASS(Czec	OCIATION: Us choslovak Acad	tav pristrojove lemy of Sciences	techniky CSAV 3)	', Brno (Institu	ite for Equipme	ent Design,	
SUB	MITTED: 06D	BC63 (1	DATE ACQ: 18	8Mar64	ENCL	: 00	1
នបុា	CODE: SD, PH	I ji	NO REF SOV:	000	OTHE	R: 012	
	1	•					
					•		
•						1	1
•				• •			

.

. ÷ ÷

į		· · ·	•	•	
				·····	
ACCESSION NR: AP4029389	Z/0039/64/025/				
AUTHOR: Petru, Frantisek (Engi Popela, Bohumir (Engineer); Krse	ineer); Bocek, Vlas ek, Jiri (Krshok, Y	tislay (Bochek, V.) (Engineer)	(Engineer);		
TITLE: Gas laser with a mixtu	re of helium and	neon ·		1	
SOURCE: Slaboproudy obzor, v.	25, no. 4, 1964, 1	81-185		:	
TOPIC TAGS: laser, stimulated emission intensity, helium emiss ABSTRACT: A He-Ne (9:1) laser μ m was used for measurements of emitted radiation was measured I from an optical goniometer. Res of various lengths and diameters angles. The best results with st in which the silica plates were far tubes are free of deformation and P/P max, is shown on a graph for was found to be good, and the sta 1/2	emission, emissio sion, neon emission of stimulated emission by a PbS photoelect sults are given of n and closed by plat- imulated emission astened with glue ra d tension. The rel	n spectrum, emission is radiation at a wave ions and emission sp ric cell and a monoc heasurements with th es installed at variou (~ 5 mW) were obtain attonship between inp	elength of 1. bectra. The hromator ma ree silica tu is Brewster ined with a t bred on. Th but and the re	ado ibes ube ese atio tput	

	1	ŗ	•			-
ACCESSION 1	NR: AP4029389		······································		an a	-hi
was + 3%/hr.	Orig. art. has: 9	figures and 1	table.		:	6.
ASSOCIATION Czechoslovak	: Ustav pristrojove Academy of Science	techniky CSA	V, Brno (Instit	ute for Equipme	nt Design.	
SUBMITTED:		DATE ACQ:		N	1	
SUB CODE: SC		NO REF SOV		ENCL:		
	i ż	• • • • • •		OTHER	4: 011	
		•		;		
•		•	•	•		
•			•	•		
· -						
	•					

PETRU, F., inz.; BOCHE, VI. inz.; KROFE, J., inz.; POPELA, B., inz.

Design and technology of the gas milecular generator of He-Ne light. Jemna mech opt 9 no.2:38-42 FIE'

1. Ustav pristrojeve techniky, skoslovenska akademie ved, Brno.

BOCEK, V., inz.; KMENT, V., inz.

Interference measurement of the homogeneity of ruby resonators for lasers. Jemna mech opt 9 [1.... 10] no.1:5-6 Ja '65.

1. Institute of Instrument Technology of the Czechoslovak Academy of Sciences, Brno (for Bocek). 2. Association for Chemical And Metallurgical Production, Usti nad Labam (for Kment). Submitted September 24, 1964.

CIA-RDP86-00513R000205710010-5

5/081/62/000/015/022/038 B168/B101 Boček, Vladimir A method of polymerizing a-olefines Referativnyy zhurnal. Khimiya, no. 15, 1962, 547-548, abstract 15P124 (Czechoslovak Patent 97063, October 15, 1960) AUTHOR: TEXT: The α -olefines CH₂ = CHR, where R = alkyl, aryl or H, were TITLE: polymerized from mixed orystals of TiCl₂ or TiCl₃ with chlorides of PERIODICAL: elements of groups II-VII in combination with trialkylaluminum or halogenalkylaluminum ee catalyst Polymerization was normally car elements of groups if-vil in complutation with triarkylatuminum or halogenalkylaluminum as catalyst. Polymerization was normally carried out at 40-80°C in a hydrocarbon medium; the pressure was normal or was increased up to 100 stm. depending on conditions. By using mixed of at 40-80°C in a hydrocarbon medium; the pressure was normal or was increased up to 100 atm, depending on conditions. By using mixed crystals of different qualitative and quantitative compositions it was possible. increased up to 100 atm, depending on conditions. By using mixed crystal of different qualitative and quantitative compositions it was possible, within broad limits to requise generately the storeconcepticity of the of different qualitative and quantitative compositions it was possible, within broad limits, to regulate separately the stereospecificity of the catalyst, the rate of polymerization and the molecular weight of the polymer. Mixed crystals of TiCl₃-AlCl₃ caird 1/3

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5"

CIA-RDP86-00513R000205710010-5

s/081/62/000/015/022/038 B168/B101

A method of polymerizing α -olefines

polymerization several times as compared with pure TiCl3, whilst within the AlCl₃ content range of 5-90% the stereospecificity of the catalyst was retained and the molecular weight of the polymer was unchanged. The molecular weight of the product could be regulated by using TiCl_-MgCl2, MnCl₂, ZnCl₂, etc. as catalyst. The percentage of the crystalline part in the polymer could be changed by means of a catalyst of the type TiCl₃-AlCl₃-FeCl₂, SnCl₂, MgCl₂. 300 ml n-heptane and 40 g propylene were placed under an atmosphere of N_2 in a thoroughly dried stainless-steel autoolave and were heated to 50°C, whereupon a catalyst of 0.70 g triethylaluminum and 0.35 g mixed crystal composed of 29% MgCl2, 17.3%AlCl3 and 53.7% TiCl3 was introduced. Intensive cooling was necessary in order to maintain the right temperature. Polymerization was discontinued after 1 hour by adding methanol. This produced 23 g polypropylene of intrinsic viscosity 2.34, crystalline part 45%. With pure TiCl, under the same

Card 2/3

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5"


APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5"

	L 22376-66 EWT(m) DIAAP ACC NR: AP6009366 SOURCE CODE: CZ/0055/65/015/011/0824/0831 AUTHOR: Maly, L.; Plajner, Z.; Dragoun, O.; Kuklik, A.; Bocev, B. ORG: Nuclear Research Institute, Czechoslovak Academy of Sciences, Rez TITLE: Radioactive decay of Re ¹⁸⁸ M	
	SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 15, no. 11, 1905, 824-831	
1	TOPIC TAGS: radioactive decay, radiation spectrum, photoelectron, conversion electron spectrum, electron structure, nuclear radiation spectrometer, radioisotope, rhenium, gamma transition	
	ABSTRACT: The spectra of negatons, conversion electrons, and photo- electrons have been measured with the iron-collar double-focusing spectrometer. Two β -groups with end-point energies of 2128 and 1973 keV and lgfr values of 8.04 and 8.41 were observed. The X and L conversion coefficients of the 155.0-keV transition were found to be conversion coefficients of the 155.0-keV transitions, 635, 1175, nearly in agreement with theory. Three new γ -transitions, 635, 1175, and 1461 keV were observed, and some corrections of the decay scheme were made. The possible interpretation of the excited states are dis- were made. The partial results of this paper were presented at the Annua cussed. The partial results of this paper were presented at the Annua	1
	Card 1/2	e

ACC NR: AP6009366			· · · · · · · · · · · · · · · · · · ·			
		$\mathbb{E}_{X} \mathbb{E}_{\mathbb{P}^{n}} = \mathbb{E}_{\mathbb{P}^{n}} \mathbb{E}_{\mathbb{P}^{n}} = \mathbb{E}_{\mathbb{P}^{n}} \mathbb{E}_{\mathbb{P}^{n}} \mathbb{E}_{\mathbb{P}^{n}} = \mathbb{E}_{\mathbb{P}^{n}} \mathbb{E}_{\mathbb{P}^{n}} \mathbb{E}_{\mathbb{P}^{n}} = \mathbb{E}_{\mathbb{P}^{n}} \mathbb{E}_{\mathbb{P}^$			······	•
the authors were	told about the work cause this informat				3	
Soviet group, Be	cold about the work cause this informat of references. A	on the same	Inotono		7	
cluded in the line	A. Vionova, B. S.	ion was inco	malata	done by	the	
(V. D. Vitman)	or references. A	paper bon	whrace'	it was no	t in-	
1965, 191) Bow	A. Vionova, B. S.	Dzhelenov v	adaus	u pusiish	ied	
paper, the saven	es the three new y	-transitions	abaanaya	Ilzika,	1,	
energies in the two	o papers in questi urianek, V. Kopriv	tions are re	Dostod	1 in the	present	
Buthown About M	o papers in questi	OD are aldal	ronceup a	and sever	al	
assistance in thi	urlanek, V. Kopriv	a. and P. P.	Lly diffe	erent. T	hs	
Press In this	work. Orig. art	hour FF	azak for	their		2
.94880 On suthawi.		• • • • • • • • • • • • • • • • • • • •				1.1
an adenot a	abstract]	Habi / IIBU	res and 2	tables.		
an adenot B	abstract]		res and 2	tables.	[NT]	
an adenot a	SUBM DATE: 214			tables,		
an adenot a	SUBM DATE: 214		res and 2 DRIG REF:	tables,		
an adenot a	abstract]			tables,		
an adenot a	SUBM DATE: 214			tables,		
an adenot B	SUBM DATE: 214			tables,		
- a adenot B	SUBM DATE: 214			tables,		
- a adenot B	SUBM DATE: 214			tables,		
an adenot B	SUBM DATE: 214			tables,		
an adenot B	SUBM DATE: 214			tables,		
SUB CODE: 20/	SUBM DATE: 214			tables,		
an adenot B	SUBM DATE: 214			tables,		
an adenot B	SUBM DATE: 214			tables,		

3

¥

.

BOCEV, Jordan

Pregnancy and labor in nephrectomized women. Report of 2 cases. Srpski arh. celok.lek. 91 no.7:731-734 Jl-Ag'63

1. Ginekolosko-akusersko adeljenje Opste bolnice u Tutovom Velesu, Seftdr. Jordan Bocev.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5"

CIA-RDP86-00513R000205710010-5

YUGOSLAVIA

1/1

Dr Jordan BOCEV, Chief (Sef)General Hospital (Opsta bolnica), Titov Veles. "Current Therapeutic Practices in Placenta Previa."

Belgrade, Medicinski Glasnik, Vol 16, No 9, Sept 1962; pp 401-404.

Abstract (English summary modified): A didactic review of the subject. Early diagnosis and continuous medical surveillance during pregnancy are essential and the safest mode of delivery is low cesarean section, with careful control of blood loss through all stages. Transfusions must be ready for both mother and newborn. Three brief case reports; 3 Yugoslav and 7 Western references

BOCH, M.S.; YURKOVSKAYA, T.K.

Interesting type of Larelian swamp. Bot.shur. 41 no.11:1631-1633 N 156. (MLRA 10:1)

1. Botanicheskiy institut imeni V.L. Komarova Akademii nauk SSSR, Leningrad. (Karelia-Peat bogs)



Bot. zhur. 43 no.4:533-		5)
1. Botanicheskiy institu	at im. V.L. Komarova Akademii nauk SSSR,	
Loningrad.	(Peat bogs)	

9

BOCH, M. S.: Master Biol Sci (diss) -- "Plant cover as an indicator of the structure of a peat deposit". Leningrad, 1959. 20 pp (Acad Sci USSR, Botanical Inst im V. L. Komarov), 150 copies (KL, No 15, 1959, 115)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5



BOCH, M.S.; RUBTSOV, N.I.

Bog complexes in the western part of the Podolian Upland. Bot. zhur. 47 no.4:506-518 Ap '62. (MIRA 15: (MIRA 15:8)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR i Laboratoriya aerometodov AN SSSR, Leningrad. (Poiolia---Peat bogs)

BOCH, M.S.

"Peat deposits of White Russia; genesis, stratigraphy, and regionalization" by A.P. Pidoplichko. Reviewed by M.S. Boch. Bot. zhur. 47 no.6:875-878 Je '62. (MIRA 15:7)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad. (White Russia-Peat) (Pidoplichko, A.P.)

_....

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5"

BOCH, M.S.

1 "Vegetation and ecology of sloping fens in eastern Finland": by P. Havas. Reviewed by M.S.Boch. Bot.zhur. 47 no.11:1690-1691 N '62, (MIRA 16:1)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad. (Finland-Swamps) (Havas, P.)

LUKICHEVA, A. N.; BOCH, M. S.

Activities of the Section of Flora and Vegetation of the All-Union Botanical Society in 1961-1962. Bot. shur. 48 no.3: (MIRA 16:4) 467-469 Mr 163.

1. Botanicheskiy institut imeni V. L. Komarova AN SSSR, Leningrad.

(Botanical research)

NORIN, B.N.; SOLONEVICH, N.G.; BOCH, M.S.; RAKHMANINA, A.T.; KATENIN, A.Ye.

> Tasks and basic trends of research at the Forest Tundra Station of the V.L. Komarov Botanical Institute of the Academy of Sciences of the U.S.S.R. Bot. zhur. 48 no.5: (MIRA 17:1) 773-777 My 163.

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.

BOCH, M.S.

"Aapa" bogs in the Northeast of the European part of the U.S.S.R. Bot. zhur. 48 no.12:1818-1822 D 163. (MIRA 17:4)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000205710010-5"

5

BOCH, M.S.

Structure of peat deposits under tree-dominant and hydrophilic treeand-moss associations in the bogs of central Karelia. Uch. zap. Petrozav. gos. un, 12 no.2:90-105 '64. (MIRA 18:7)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5"

.,

SOLONEVICH, N.G.; BOCH, M.S.

International Peat Congress in Leningrad, August 15-23, 1963. Bot. zhur. 49 no.3:464-469 Mr '64. (MIRA 17:3)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

BOCH, M.S.

"On the regional subdivision of swamps in southern Finland," by S. Eurola. Reviewed by M.S. Boch. Bot. zhur. 49 no.5:746-749 My 164. (MIRA 17:8)

1. Botanicheskiy institut imeni V.L. Komarova.

•.

BOCH, M.S.; YURKOVSKAYA, T.K.

.

Comparison of the bog regions of Karelia, Kola Peninsula, and Finland. Bot. zhur. 49 no.7:980-988 Jl 164

(MIRA 17:8)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad i Institut biologii Petrozavodskogo gosudarstvennogo universiteta, Petrozavodsk.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5"

BOCH, M.S. entration and the second

Present state of the question concerning the use of the indicatory role of bog vegetation in studying the structure and properties of peat deposits. Trudy MOIP 8:72-76 164.

(MIRA 17:12)

BOCH, M.S.

Work of the Section for Swamp Study of the All-Union Botanical Work of the Section for Swamp Buddy of the inc. 163 Ja '65. Society during 1963-1964. Bot. zhur. 50 no.1:160-163 Ja '65. (MIRA 18:3) 1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

BOCH, M.S.

Basic problems and trends in the development of the study of swamps in the European countries during the period 1945-1963. Bot.zhur. 50 no.2:245-264 F '65. (MIRA 18:12)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad. Submitted April 20, 1964.

BOCH, M.S.; SOLONEVICH, N.C.

Conference on the problem "Modern ways and methods of swamp studies," Bet.zhur. 50 nc.7:1031-1036 Jl \$65. (MIRA 18:11)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

~

BOCH, S. G.

Quarternary Deposits of the Water Separating region of the pre-polar Urals. Trudy Sov. Sekts. Meahd. Assots. Po Izvch. Chetverticher. Perioda #5, 1941.

SO: Trudy Arkitcheskogo Nauchno-Issledovatel'skogo Instituta, GUSMP, Council of Ministers, Vol 201, 1948

BOCH, S. G. and KRASNOV, I. I.

Mountainous Terraces and Ancient Weathered Surfaces in the Urals and related problems. Iz. Vses. Geogr. Obshch. Vol 75 #1, 1943

SO: Trudy Arkitcheskogo Nauchno-Issledovatel'skogo Instituta, GUSMP Council of Ministers, Vol 201, 1948

USER/Hydrology Erosion
"The Geomorphological Work of River Ice," S. G. Booh, 1 p
"Priroda" No 5
In 1946, Boch made a trip up the Voykar River, left tributary of the Ob' River, whose source is on the eastern slopes of the Polar Urals (about 66° 30' N). Describes geomorphological action of ice on banks and shallows, which was exceptionally well defined.



Ģ

BOCH, S.G.; GRUSHEVOY, V.G.; DZEVANOVSKIY, Yu.K.; ZORICHEVA, A.I., IVANOV, A.A.; KUREK, N.N.; LIEROVICH, L.S.; MOROZENKO, N.K.; HEKHOROSHEV, V.P.; RUSANOV, B.S.; SPIZHARSKIY, T.N.; SHABAROV, N.V.; SHATALOV. Ye.T., redakter; DZEVANOVSKIY, Yu.K.; redaktor; KRASNIKOV; V.I... redaktor; MIRLIN, G.A., redakter; RUSANOV, B.S., redaktor; SEMERO-VA, M.V., redakter; GUROVA, O.A., tekhnicheskiy redakter.

> [Instruction for compiling and preparing for publication the state geological map of the U.S.S.R., and the map of the mineral resources of the U.S.S.R.Scale 1:1000000] Instruktsiia po sestavleniiu i podgotovke k izdaniju gozudarstvennej geologicheskoj karty SSSR i karty poleznykh iskopaemykh SSSR. Masshtaba 1:1000000. Moskva, Gos. nauchnetekhn. izd-vo lit-ry po geologii i okhrane nedr, 1955. 52 p., tables of symbols, maps [Microfilm] (MLRA 9:6)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr. (Geology--Maps)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5"

13aC3	V.I.; ZHUKOV, M.P PERKONS, V.A.; PO SEMENOVA, A.S.; S	, N.I.; BOCH, S.G.; VOZNESENSKIY, D.V.; GHOMOV, M.; KRASNOV, I.I.; LUNGERSGAUZEN, G.F.; OKROVSKAYA, I.M.; RUDOVITS, Yu.L. [deceased]; SHARKOV, V.V.; EPSHTEYN, S.V.; YAKOVLEVA, S.V.; edaktor; GUROV, O.A., tekhnicheskiy redaktor.	
	quarternary depos rukovodstvo po is otiozhenii; opiss	for studying and geological surveying of sits; description of methods] Metodicheskoe sucheniiu i geologicheskoi s"emke chetvertichnykh anie metodov. Sost.S.A.Iakovlev. Moskva, Gos. d-vo lit-ry po geologii i okhrane nedr, 1955. m] (MLRA 9:1)	
		esoyuznyy geologicheskii institut. surveys) (Geology, StratigraphicQuaternary Study and teaching)	

15-1957-12-16959

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 12, p 40 (USSR)

AUTHOR: Boch, S. Q.

TITLE: Observations of the Forms of Micro-Mesorelief in Quaternary Deposits Caused by Permafrost Phenomena (Nablyudeniya nad formami mikro-mezorel'yefa v chetvertininnykh otlozheniyakh, svyazannymi s merzlotnymi protsessami)

PERIODICAL: V.sb: Metod. rukovodstvo po izucheniyu i geol. s"yemke chetvertich. otlozheniy, ch 2, Moscow, Gosgeoltekhizdat, 1955, pp 298-345

ABSTRACT: Bibliographical entry

Card 1/1

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5"

-1

BOLH, S.E. 14-1-393 Translation from: Referativnyy Zhurnal, Geografiya, 1957, Nr 1, p, 37 (USSR) AUTHOR: Boch, S. G. Geomorphology of large Knolls (K geomorfologii krupno-TITLE: bugristogo rel'yefa) Materialy Vses. n.-i. geol. in-ta, 1955, Nr 9, pp. 19-34 PERIODICAL: ABSTRACT; Results of land and air observations (from a height of 50 to 300 m) of predominantly marshy terrain with large knolls, carried out by the author in the NE part of the European USSR and in the northern part of the region beyond the Urals, are given. Large knolls are encountered throughout the terrain studied and form on guaternary deposits of different origins. The knolls develop extensively in poorly drained, humid, level or slightly inclined surfaces of water-divides, lake hollows and valleys, and in the glacier troughs. The southern boundary of the mass development of knolls within the Card 1/2confines of the Urals corresponds more or less to the

Geomorphology of large Knolls

southern boundary of permafrost. Knolls are divided into 3 groups: a) knolls formed entirely of mineral soil; b) knolls formed of mineral soil and covered by a layer of peat (not over 1 m deep); c) knolls of allpeat formation. Layers of ice several decimeters deep are encountered in these knolls during the summer at a depth of 0.3 to 0.8 m, especially in the knolls of the last 2 types. The knoll size varies from 3 - 5 to 25 - 40 m across, with a corresponding height of 0.7 to 1.5 m and up to 7 m. They have a cupola, flat cupola and truncated shape, often with a saucer-type depression at the top. Different forms of knolly terrain are described at some length. Bibliography: 30 references.

ASSOCIATION: All-Union Geological Scientific Research Institute (Vses. n.-i. geol. in-t.)

Card 2/2

7



15-57-8-11211 giya, 1957, Nr 8,
luvial Streaks ossypnykh shleyfov)
geol. i geomorfol. 1956, pp 185-193
lluvial streaks has the point of view of tice. The author pro- treaks. He dis- th the original de- n inclines of about 8°, multi-stage, on inclines cess of formation and e alluvial streaks, the

15-57-8-11211 Solifluction and Formation of Alluvial Streaks (Cont.)

dependence of their form on the steepness of the slope, and also the distribution of the mineral resources with relation to the mechanical composition of the material composing the streak in extent and in vertical cross section. For the moderately sloping streaks, a redistribution of the mineral resources is characteristic, associated with the development of the ground structures. (The ore concentrate is correlated with the soil bands and lenses). The streaks of average steepness are characterized by a loading of the alluvial deposits under the ground from the base to the top and an increase in the content of mineral resources in this direction. On steep slopes, the solifluction streaks have no industrial value. The author emphasizes the rapid destruction and displacement of the material of the original deposits under conditions of solifluction and the variation of the formation of alluvial deposits with the character of the solifluction. In prospecting of alluvial streaks, careful study of all phenomena of solifluction in relief (scale 1: 100 000) is recommended. This study makes it possible to locate Card 2/3
,

•

15-57-8-11211 Solifluction and Formation of Alluvial Streaks (Cont.)

the prospecting trenches efficiently and to obtain a saving in the volume of mining operations of from 30 to 70 percent. Card 3/3 A. V. Kozhevnikov Card 3/3

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000205710010-5 130ch, S.G. BOCH, S.G. and the second Sergei Aleksandrovich IAkovlev. Mat. VSEGEI Chet.geol.i geomorf. no.1:7-11 '56. (MIRA 10:10) (Lakovlev, Sergei Aleksandrovich, 1878-) í

.....

BOCH S.G. [deceased].

Several types of microrelief connected with the melting action of firis. Biul. Kom. chetv. per. no.21:131-135 '57. (MLRA 10:6) (Brosion) (Glaciers)

no chi

APUKHTIN, N.I.; BOGRETSOVA, T.B.; BOCH, S.G. [deceased]; GENESHIN, G.S.; GOLUBEVA, L.V.; GROMOV, V.I.; KRASNOV, I.I.; MIKHAYLOV, B.M.; NIKIFOROVA, K.V.; NIKOLAYEV, N.I.; POKROVSKAYA, I.M.; POPOV, V.V.; PRINTS, R.N.; RAVSKIY, B.I.; SHANTSER, Ye.V.; EPSHTEYN, S.V.; YAKOVLEVA, S.V.; FRODOT'YEV, K.M., redaktor izdatel'stva; KASHINA, P.S., tekhnicheskiy redaktor

i٨

[Concise field manual for a comprehensive geological survey of the Quaternary] Kratkoe polevoe rukovodstvo po kompleksnoi geologicheskoi s"emke chetvertichnykh otlozhenii. Sost. N.I.Apukhtin i dr. Moskva, 1957. 201 p. (MLRA 10:9)

 Akademiya nauk SSSR. Geologicheskiy institut. 2. Moskovskiy geologo-razvedochnyy institut (for Shantser). 3. Geologicheskiy institut Akademii nauk SSSR (for Eikiforova, Havskiy, Golubeva)
Vassoyusnyy Nauchno-issledovatel'skiy geologicheskiy institut Ministerstva geologii i okhrany nedr SSSR (for Ganeshin, Bogretsova, Mikhaylov). 4. Voyenno-inshenernaya akademiya in. Kuybysheva (for Popov). 5. Trest "Mosgeolnerud" (for Prints). 6. Severo-Zapadnoye geologicheskoye upravleniye (for Apukhtin) (Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5

SPIZHARSKIY, T.N., red.; TOISTIKHINA, M.A., red.; BODYLEVSKIY, V.I., red.; BOCH.S.C., red.[deceased]; VASILENKO, V.K., red.; DODIN, A.L., red.; DOMRACHEV, S.M., red.; KRASNOV, I.I., red.; MELESHCHENIO, V.S, red.; MENNER, V.V., red.; NIKIFOROVA, O.I., red.; OBRUCHEV, S.V., red.; RZHONSNITSKAYA, M.A., red.; ROSTOVTSEV, N.N., red; SAKS, V.N., red.; SARYCHEVA, T.G., red.; FOMICHEV, V.L., red; CHERNYSHEVA, N.Ye., red.; YAKOVLEV, S.A., red.; RAGINA, G.M., vedushchiy red.; YASHCHURZHINSKAYA, A.B., tekhn.red.

> [Proceeding of the Interdepartmental Conference on the Development of a Unified System for the Stratigraphy of Siberia; reports on the stratigraphy of Mesozoic and Ceinozoic deposits] Trudy Mezhvedomstvennogo soveshchaniia po razrabotke unifitsirovannykh stratigraficheskikh skhem Sibiri; doklady po stratigrafii mezozoiskikh i kainosoiskikh otlozhenii. Leningrad, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, Leningr. otd-nie, 1957. 575 p. (MIRA 11:6)

1. Mezhvedomstvennoye soveshchaniye po razrabotke unifitairovannykh stratigraficheskikh skhem Sibiri. Leningrad, 1956. 2. Vsesoyuznyy geologicheskiy nauchno-issledovatel'skiy institut (for Spizharakiy, Tolstikhina, Boch, Dodin, Krasnov, Meleshchenio, Nikiforova, Rostovtsev, Fomichev, Chernysheva, Yakovlev). 3. Leningradskiy gornyy institut (for Bodylevskiy). 4. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologo-razvedochnyy institut (for Vasilenko, Domrachev). 5. Geologicheskiy institut Akademii nauk SSSR (for Menner). 6. Iaboratoriya dokembriya Akademii nauk SSSR (for Obruchev). 7. Institut geologii Arktiki (for Saks). 8. Paleontologicheskiy institut Akademii nauk SSSR (for Sarycheva) (Siberia-Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/09/2000

BOCH, S.G. [decensed]; KRASNOV, I.I.

Classification of geomorphological mapping objects and contents of general geomorphological maps in establishing conventional signs for maps made on different scales [With summary in English]. Sov. geol. 1 no.2:27-50 '58. (MIRA 11:4)

 Vsesoyusnyy nauchno-issledovatel'skiy geologicheskiy institut. (Geology, Structural--Maps)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5

SPIZHARSKIY, T.N., red.; BODYLEVSKIY, V.I., red.; BOCH, S.G., red.; VASILENKO, V.K., red.; DODIN, A.L., red.; DOMRACHEV, S.N., red.; KRASNOV, I.I., red.; MELESHCHENKO, V.S., red.; MEHNER, V.V., red.; NIKIFOROVA, O.I., red.; OBRUCHEV, S.V., red.; RZHONSNITSKAYA, M.A., red.; ROSTOVTSEV, N.N., red.; SAKS, V.N., red.; SARYCHEVA, T.G., red.; FOMICHEV, V.D., red.; CHERNYSHEVA, N.Ye., red.; YAKOVLEV, S.A., red.; SKVORTSOV, V.P., red.izd-va; FEN'KOVA, S.A., tekhn.red.

[Decisions of the Interdepartmental Conference on Making Unified Stratigraphic Charts of Siberia] Resheniia Meshvedomstvennogo soveshchaniia po razrabotke unifitsirovannykh stratigraficheskikh skhem Sibiri. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po geol. i okhrane nedr, 1959. 91 p. (MIRA 12:9)

1. Meshvedomstvennoye soveshchaniye po razrabotke unifitsirovannykh stratigraficheskikh skhem Sibiri, Leningrad, 1956.

(Siberia--Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/09/2000

BOCHACHER, L.

BOCHACHER, M. Moldaviia. 58 p. (Respubliki i oblasti SSSR)

So: LC, Soviet Geography, Part II, 1951/Unclassified

BOCHACZ, Edward

Some aspects of working hours in commercial enterprises. Praca zabesp spel 5 no.8/9:1-8 Ag-S 163.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000205710010-5"

٠.

BOCHAGOV Ash aspirant.

Brrors in methods in barometric altitude measurement. [Trudy] MVTU no.48:57-81 '55. (MLRA 9:8) HVTU no.48:57-81 '55. (Barometric hypsometry)

BOCHAGOV, B. A.

BOCHAGOV, B. A. : "A new method of studying the angular and energy distributions of heavy charged particles and fission particles, based on the use of the impulse ionization chamber." Acad Sci USSR. Leningrad Physicotechnical Inst. Leningrad, 1956 (Dissertation for the Degree of Candidate in Physicomathematical Science)

No. 28 1956 Moscow Knizhnaya letopis' Source:

CIA-RDP86-00513R000205710010-5



APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5



的合物合物

	BOCHAGOV, B.H.
AUTHOR FITLE	BOCHAGOV, B.A., KOMAR, A.P., KOCHAROV, G.E. 56-5-51/55
PERIODICAL	The Fine Structure of the u-Spectra of 9238 and 01 of an (Ton'kaya struktura a-spektrov U234 i U238 -Russian) Zhurnal Eksperim.i.Teoret.Fiziki,1957,Vol 32,Nr 5,pp 1257-1259(USSR)
ABSTRACT	It is of advantage to investigate the fine structure of the a-spec- tra of long-lived isotopes by means of impulse ionization-chambers, because their light intensity is by several orders of magnitude hi- gher than that of magnetic spectrometers. However, the ionization cham- bers have a slightly lower dissolving power than the magnetic spec- trometers. The authors of the paper under review were able to reduce the mean quadratic values of the radiotechnical noise to 6.8 MeV. Furthermore it was possible, by means of the electrical collimation method devised in the laboratory of the authors, to fully utilize the light intensity of the apparatus. On basis of these considerations, the authors of the paper under review constructed a device with a half width of the line of 30 keV and with good light intensity. By means of this apparatus, the energy spectrum of the a-particles of U ²³⁴ and of U ^{23B} was investigated. A natural mixture of the uran- ium isotopes aerved as source of the a-particles. The results obtain- ed are to be found in two diagrams contained in the paper under re- view. In addition to the main group of the a-particles with the en- ergy of 4.77 MeV, a group of a-particles with the energy of 4.72KeV was very distinctly separated in U ²³⁴ ; this group corresponds to the transition to the first rotational level of Th ²³⁰ . The insten- sities of these two lines amount to 725 and 285. These duta are in
Card 1/2	sities of these two lides amount to jays and 2000, these data are in

CIA-RDP86-00513R000205710010-5

The Fine Structure of the α -Spectra of y^{234} and of y^{238} . 56-5-51/55 good agreement with the results obtained by other authors. The line of the fine structure is in a distance of 45 keV from the main line. The ratio of the intensity of the main line and of the intensity of the line of the fine structure equals 4. The half width of the lines obtained amounts to->30keV. The curves obtained are by no means the sum n of the two Gauss curves corresponding to the main group and to the group of the fine structure. It was necessary to assume the existence of a third group of u-particles with an energy sonewhere between the main group and the group of the fine structure, as the nucleus emits with low energy a conversion electron after the emission of the a-particle. The conversion amounts to virtually 100%.

Э

ASSOCIATION Leningrad Physical-Technological Institute, Academy of Science of PRESENTED BY the U.S.S.R.

SUBMITTED 16.2.1957 AVAILABLE Library of Congress. Card 2/2

APPROVED FOR RELEASE: 06/09/2000

Bochagov, B.A.

120-6-16/36

AUTHORS: Bochagov, B.A., Kocharov, G.Ye., and Kirshin, G.F. An Improvement in the Energy Resolution of the Ionisation TITLE:

Chamber with a Grid (Uluchsheniye razreshayushchey sposobnosti po energii impul'snoy ionizatsionnoy kamery s setkoy)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.6, pp. 72 - 74 (USSR)

ABSTRACT: The main factors are considered which have an effect on the energy resolution of an ionisation chamber containing a grid. As is known, the presence of even a small impurity of grid. As is known, the presence of even a small impulley of gases such as oxygen, water vapour, etc. considerably worsen the energy resolution. To clean up the gas a sodium "filter" was used. The clean-up took about 2 to 3 hours. By a suitable choice of the first valve of the amplifier, and by suitable matching, the RMS value of the noise was reduced to 6.8 keV, which is less by 3.2 keV than that quoted in Ref.4. It is shown that the Soviet value 6 17 has better noise properties than the American valve 6AK5. The signal-to-noise ratio depends on the pass band of the amplifier as well as the characteristics of the first valve. To obtain a maximum signal-to-noise ratio, it is necessary to use valves having a small grid current as well as very curved characteristics. The energy spectrum of Card 1/2

CIA-RDP86-00513R000205710010-5

An Improvement in the Energy Resolution of the Ionisation Chamber with a Grid. α -particles from U²³⁴ and U²³⁸ (Ref.6) was measured using the above improved circuitry. The half width of the α -lines was found to be about 30 keV. The following persons collaborated: A.P. Komar, A.A. Vorob'yev and S.N. Nikolayev. There are 5 diagrams and 6 references, 3 of which are Slavic. ASSOCIATION: Physico-Technical Institute Ac.Sc. USSR. (Fiziko-tekhnicheskiy Institut AN SSSR) SUBMITTED: January 17, 1957. AVAILABLE: Library of Congress. Card 2/2

AUTHORS :	Bochagov, B. A., Vorob'yev, A. A., Komar, A. P. 57-27-7-20/40
TITLE:	An Impulse Ionization Chamber as a Device for the Simultaneous In vestigation of the Energetic and Angular Distributions of Charged Particles (Impul'snaya ionizatsionnaya kamera kak pribor dlya odnovremennogo izucheniya energeticheskikh i aglovykh raspredelen zaryazhennykh chastits).
PERIODICAL:	Zhurnal Tekhnicheskoy Fiziki, 1957, Vol. 27, Nr 7, pp. 1575-1577 (USSR)
ABSTRACT:	It is shown that the energy E (half width of the lines of α -spect and the angle of flight φ (between the normal to the electrodes and the direction of flight of the charged particle) of the par- ticle concerned can be determined beginning from the source, when the quantity of the impulse V_1 (the voltage at the collecting electrode) and the quantity of one of theimpulses V_2 (the voltage at the high-voltage electrode), V_3 (the voltage at the power suppl or V_4 (the voltage at the moment where all electrons have reached the collecting electrode) is simultaneously measured. The accurate of measurement of $\cos \varphi$ in this connection is about 3% and can be improved. At present a mechanical collimator is often used in measurements of the energy of α -particles may also be brought to collimation without a mechanical collimator due to the fact that
Card 1/2	the ionization chamber permits a simultaneous measurement of E and

An Impulse Ionization Chamber as a Device for the Simultaneous 57-27-7-20/40 Investigation of the Energetic and Angular Distributions of Charged Particles.

 φ . The method suggested here can also be employed for the solution of problems of a-spectroscopy, for theinvestigation of the a- correlation, the neutron-spectrum according to the protons given off and for the investigation of the angular distribution of heavy products of nuclear reactions. There are 3 figures.

ASSOCIATION: Loningrad Polytechnic Institute imeni M. I. Kalinin (Leningradskiy politekhnicheskiy institut im. M. I. Kalinina)

SUBMITTED: January 27, 1956

AVAILABLE: Library of Congress

- 1. Ionization chambers-Applications 2. Particles-Energy-Measurement
- 3. Particles-Transmission-Analysis

Card 2/2

APPROVED FOR RELEASE: 06/09/2000

. .

CIA-RDP86-00513R000205710010-5

83570 s/056/60/038/005/003/050 B006/B070 26.2211 Bochagov, B. A., Komar, A. P., Solyakin, G. Ye. AUTHORS: The Kinetic Energy of the Photofission Fragments of U^{238} TITLE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, PERIODICAL: Vol. 38, No. 5, pp. 1374-1380 TEXT: The authors report on investigations of the photofission of heavy nuclei, particularly U^{238} , carried out with the help of two pulsed ionization chambers. A block diagram of the experimental arrangement is shown in Fig. 1. The synchrotron of the FTI AN SSSR (Institute of Physics and Technology of the AS USSR) supplied.70 Mev gamma radiation. Uranyl nitrate in the natural isotopic composition in the form of a deposit on a cellulose film served as the target. The film was covered on both sides by thin sheets of aluminum. The thickness of the film together with that of the aluminum was 30 μ g/cm². The thickness and the homogeneity of the uranyl-nitrate film were determined from the alpha spectrum of the natural uranium. Fig. 2 shows this spectrum taken from the side of uranyl nitrate. The thickness of the uranyl-nitrate film was $320 \ \mu g/cm^2$. According to Card 1/4

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5

83570

The Kinetic Energy of the Photofission Fragments of U²³⁸ s/056/60/038/005/003/050 вооб/во70

I. V. Chuvilo (Ref. 9), the fragment yield is due to U^{238} fission with an accuracy of 1% when uranium targets of natural isotopic mixture are used. In the experiments, every fission event is characterized by the energies E_1 and E_2 (corresponding to whether it was recorded in the first or in the second chamber). The distribution of the individual events in (E_1, E_2) is shown in Fig. 3 (contour diagram) as "horizontal" surfaces $W_{ik}(E_1,E_2)$, where $W_{ik} = n_{ik}/n_{ik \max}$, and n is the number of events. The remarkable thing about the surfaces $W_{ik}(E_1,E_2)$ is their symmetry for reflection at the vertical plane containing the principal diagonal $(E_1=E_2)$. This symmetry shows the same emission probability of light and heavy fragments for a given direction. It follows from Fig. 3 that the most probable values of the energies of the fragments are 87 and 61 Mev. Fig. 4 which shows the fragment yield as a function of the masses $m_p/m_1 = E_1/E_p$, gives the value of the most probable mass ratio as 1.36. It is seen, therefore, that the ratio of the most probable masses (1.43) is not equal to the Card 2/4

APPROVED FOR RELEASE: 06/09/2000

The Kinetic Energy of the Photofission S/056/60/038/005/003/050Fragments of U²³⁸ S/056/60/038/005/003/050most probable mass ratio. (The same is true also of the neutron-induced fission of U²³⁵ and U²³?) The W_{ik} surfaces are further characterized by the two symmetrically lying "hillocks" with "ridges" parallel to the coordinate axes. These diagrams have analogous forms for the neutroninduced fissions of other Heavy nuclei. Fig. 5 shows the spectra of the total (kinetic) energy $\Sigma E = E_1 + E_2$ for different E_1/E_2 ; Fig. 6 shows the spectrum $\Sigma E = f(N)$. The peculiarities of the curves are discussed. Fig. 7 shows the fragment distribution $N = f(E_1)$; Fig. 8 shows the same

for three different ranges of ΣE . These distributions have always two maxima of nearly the same height. The most probable value of ΣE is 150+2 Mev, the half widths of the high and low energy peaks are 17 and 19 Mev, respectively. The measured values and also those obtained after correction for the source thickness and ionization defects are collected in a table. Yu. Morozov and B. K. Gormin are thanked for technical assistance. There are 8 figures, 1 table, and 13 references: 6 Soviet, 4 US, 2 Canadian, and 1 German.

Card 3/4

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205710010-5"

83570

•			_
The Kinetic H Fragments of	nergy of the Photofissi U ²³⁸	83570 ion \$/056/60/038/005/003/050 B006/B070	
AŞSOÇIATION:	Academy of Sciences,	-tekhnicheskiy institut Akademii of Physics and Technology of the USSR) tially) and January 18, 1960 (after	X
Card 4/4			

2]1,12 S/089/61/011/006/009/014 B102/B138

21.6000 AUTHORS :

Bochagov, B. A., Komar, A. P., Solyakin, G. Ye., Fadeyev, V. I.

Kinetic energy of Th²³² photofission fragments TITLE:

PERIODICAL: Atomnaya energiya, v. 11, no. 6, 1961, 540 - 543

TEXT: The kinetic energy distribution of Th²³² photofission fragments was determined in order to find the most probable fragment mass ratio, and

to compare the results with those from 14-Mev neutron-induced Th^{232} fission. The experimental method has been described by the authors in a previous paper (ZhETF, <u>38</u>, 1374 (1960)). Only the recording apparatus was altered, to make the coordinates of any oscillographic point corre-

spond to the kinetic energy of a fragment. 150 μ g/cm² of thorium nitrate was used as a target, deposited on an aluminum-coated collodium foil of

total thickness 30 μ g/cm². The target was 2 m off the gamma source so that about 10 decay events could be recorded per minute. The results, which are graphically presented, were determined from 26,000 decay records. Card 1/1 Ľ

^{21,1}\$/089/61/011/006/009/01.4 Kinetic energy of Th²³²... B102/B138 The contour diagram for the fragment energy distribution shows that asymmetric, as well as symmetric fragmentations occur, and that the mass ratio m_2/m_1 diminishes as the mass of the disintegrating nucleus increases. For Th²³², U^{238} and Cf^{252} , m_2/m_1 is 1.56, 1.36, and 1.31, respectively. The figure 1.56 was determined from the fragment mass distribution. From the total energy distribution it can be seen that the most probable total energy $E = E_1 + E_2$ is lower and the half-width of the peak (45 Mev) higher, than the respective values for U^{238} photofission. The following numerical values for most probable fragment energy (Mev) were determined: Heavy fragments: $52 + 2 + 6.8 = 61 \pm 2$ Light fragments: $89 + 2 + 5.6 = 97 \pm 2$ heavy + light f.: 143 + 2 + 12 = 157 ± 3 The authors thank the proton-synchrotron team of the FTI AN SSSR, and G. N. Nikolayev and K. Shvets for assistance. There are 4 figures, 1 table, and 4 references: 2 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: D. Hiller, D. Martin. Phys. Rev., 90, 581 (1953); R. Jensen, A. Fairhall. Phys. Rev., 109, 942 (1958). 2 Card 2/1 6

APPROVED FOR RELEASE: 06/09/2000

32426

S/020/61/141/006/009/021 B104/B112

24.6400

AUTHORS: Komar, A. P., Academician AS UkrSSR, <u>Bochagov</u>, <u>B. A</u>., and Solyakin, G. Ye.

TITLE: Energy distribution of a-particles in argon photodisintegration

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 141, no. 6, 1961, 1339-1342

TEXT: The authors observed the energy distribution of α -particles by an ionization chamber with grids for a period of 30-40 hours. Fig. 1 shows the block diagram of the experimental arrangement. γ -rays ($E_{max} = 70 \text{ Mev}$)

were produced by the synchrotron of the Physicotechnical Institute AS USSR and possessed lengths up to 1500 µsec. The device was calibrated by means of the α -particle spectrum of natural uranium. Energy distributions of α -particles were determined at argon pressures of 1, 1.3, 2, and 3 atmospheres. The maxima of energy distributions at these pressures ly at 4.6, 4.87, 4.4, and 4.3 Mev, the corresponding half-widths amounted to 2.62, 2.76, 3.20, and 3.65 Mev. Since these spectra differ only slightly, the effect of protons, deuterons, and tritons on the taking of spectra may Card 1/43

APPROVED FOR RELEASE: 06/09/2000

32426

s/020/61/141/006/009/021 B104/B112

Energy distribution of ...

be considered low. Effectiveness of recording of charged particles with $R^* > d$ decreases with increasing R^* . In this case, R^* is a value which approximately equals the particle path d = 35 cm (distance between electrode 1 and grid 2). The natural energy spectrum of α -particles produced in argon photodisintegration is constructed from the spectra obtained. The spectrum is shown in Fig. 3. Its maximum lies at 4.8 Mev, its halfwidth is 3.3 Mev. By a comparison with the spectrum calculated by the statistical theory, the difference of maxima was found to be 2 Mev. The deviation of the experimental from the theoretical value may be explained by the occurrence of the reaction

 $A^{40}(\alpha\gamma n)S^{36}$ besides reaction $A^{40}(\gamma\alpha)S^{36}$ or by a Coulomb penetration factor higher than used in the calculation. The authors thank the team of the synchrotron of the Physicotechnical Institute AS USSR for work performed. There are 3 figures and 9 references: 3 Soviet and 6 non-Soviet. The three references to English-language publications read as follows: M. E. Toms, I. McElhinney, Phys. Rev., 111, 561, (1958); M. M. Shapiro, Phys. Rev., 90, 171 (1953); G. A. Ferguson, J. Halpern et al., Phys. Rev., 95, 776 (1954).

Card 2/43

CIA-RDP86-00513R000205710010-5



APPROVED FOR RELEASE: 06/09/2000