"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204410004-6

BELOKON', I.P. [Belokin', I.P.] Development of botany in the Polish People's Republic. Ukr. bot. zhur. 19 no.2:95-107 '62. (MIRA 15:6) (Poland-Botanical research)

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	· .	47 no.11:17	ol-1703 N '62. y gosudarstven (Kostriukova,	nyy univer	r 70th birt	T.G.She	vchenko.	- -
		1. KIYEVSKI	(Kostriukova,	Kseniia I	Ul'evna, 10	· · · · · · · · · · · · · · · · · · ·		1
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BELOKON', I.P. [Bilokin', I.P.]

"Agricultural botany. Part 2: Plant physiclogy" by R.Dostal, D.Dykyjova. Reviewed by I.P.Bilokin'. Ukr. bot. zhur. 20 no.4:120-121 '63. (MIPA 17:4)

APPROVED FOR RELEASE: 06/08/2000

BELOKON', I.P. [Bilokin', I.P.]

Review of the periodical "Acta societatis botanicorum Poloniae" for 1960, 1962. Ukr. bot. zhur. 21 no.1:102-105 '64. (MIRA 17:3)

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L 54714-65 ACCESSION NR: AP5018129	UR/0219/6	4/058/011/0014/0019 5
AUTEOR: Belokon', L. I.		Ø
TITLE: Changes in the electr	ical activity of the spinal cord u	
SOURCE: Byulleten' eksperime 14-19	ontal'noy biologii i meditainy, V.	58, no. 11, 1904
TOPIC TAGS: nervous system,	copper, ion	
ABSTRACT: Changes in the b ity of the spinal cord unde In experiments carried out ing to 0.1-1 mg Cu per kg w	ackground ("spontaneous") bioele r the effect of copper ions were on cats, cupric chloride in amou eight was injected intravenously wat applied locally to the dore	or an 0.01 M sal surface of
the spinal cord at the part	ce from which the potentials were rical activity, followed by a pro- changes were more pronounced for rtions of the spinal cord (in the	r natentials
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at when the alactmodes	AP5018129 or nuclei of the tibial muscle are located) than for potentials obtain lectrodes were applied dorsally. In spinal animals the phase of ctrical activity was absent; onlyddepression was produced. Orig. art.				
has: 3 graphs.	normal nov fisiologii Ivano-Frankovsko	no meditalnakogo			
instituta (Department	of Normal Physiology, Ivano-Frankovsk	Hedical Institute			
SUBMITTED: 19Jun63	TAXI, ENCL: 00	SUB CODE: LS			
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No.

. م. ا	AUTHORS:	Abramov, V. S., <u>Belckon</u> , L. Sh., 79-28 3-22/61 Makhmutova, F. I.	·.
	TITLE:	The Reaction of Dialkylphosphorous Acids With Aldehydes and Ketones (O vzaimodeystvii dialkilfosforistykh kislot	
		s al'degidami i ketonami)	•
		Esters of 1-Oxy…1-Acetoethylphosphinic- and 2-Oxy-4-Keto - 2 - Amylphosphinic Acid (Efiry 1-oksi-	
•		-l-atsetoetilfosfinovoy i 2-okgi-4-ketc-2-amilfosfino- voy kislot)	
	PERIODICAL:	Zhurnal Obshchey Khimii, Vol, 28, Nr 3, pp. 665-667 (USSR)	
	· ·		
	ABSTRACT:	The authors carried out systematic investigations of the	
		condensation of dialkylphosphorous acids with diacetyl- and	
	· · ·	acetylacetone. In this the formation of two products with one or two carbonyl groups was to be expected. In $\alpha$ -diketones	-
		(diacetyl) these groups interact by increasing polarization	
		which would have to lead to a condensation of the above	
		mentioned acids with the first carbonyl group of diacetyl under the formation of the compound (I). The reaction of the	
	Card 1/3	ander the formation of the compound (1), the reguliton of the	

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The Reaction of Dialkylphosphorous Acids With Aldehydes and 79-28 3-22/61 Ketones. Esters of 1-Oxy-1-acetoethylphosphinic- and 2-Oxy-4-keto - 2 - Amy1phosphinic Acid

> second carbonyl group with the second molecule of the acid must be independent of the action of the phosphone group on the reactivity of the molecule and on the possibilities of spatial arrangement formed from it after its entrance into the molecule (II). The equimolecular condensation of Halkylphosphorous acids with diacetyl proceeds well, also without catalyst, on the water bath within from 10-12 hours. The vacuum distillation of the esters takes place without decomposition. Contrary to the condensation products of dialkylphosphorous acids with monoaldehydes and monoketones the synthetized esters have a constant boiling temperature. The esters of the 1-Oxy-1acetoethylphosphinic acid are given in table 1. The condensation of dialkylphosphorous acids with acetylacetone must take place under formation of the esters of the 2'-amylphosphine derivatives. In the condensation of dialkylphosphorous acid with a carbonylgroup of acetylacetone an ester is formed in its carbonylform, namely one of

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The Reaction of Dialkylphosphorous Acids With Aldehydes and 79-28 3-22/61 Ketones. Esters of 1-Oxy-1-Acetoethylphosphinic- and 2-Oxy-4-keto - 2 - Amylphosphinic Acid

> the 2-Oxy-4-keto -2-amylphosphinic acid (III). With the enole form of acetylacetone, however, a 2,4-dioxy-2-penten-3-yl-phosphinate is formed (IV). In both cases the reaction leads to one and the same product with two tautomeric formulae being in equilibrium, The equimolecular condensation of dialkylphosphorous acids with acetylacetone proceeds a little more difficultly without a catalyst than with diacetyl, the yields being small (table 2). The authors tried in vain to determine the carbonylgroup by means of phenylhydrazone. There are 2 tables and 2 references, which are Soviet

ASSOCIATION: Kaza .r.

Kaza nskiy khimiko- tekhnologicheskiy institut (Kazan' Chemical Technological Institute) March 5, 1957

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NULEGO IUN NR. AFJUZZZ40	UR/0363/65/001/007/1016/1020 460 546.289:548.55 55
AUTHOR: Dorfman, V. F.; Belokon', M	. S.; Krasnova, G. F.; Tolkacheva, G. N.
TITLE: Effect of growth conditions	on certain properties of epitaxial germanium
SOURCE: AN SSSR. Izvestiya. Neorg	anicheskiye materialy, v. 1, no. 7, 1965;
COPIC TAGS: epitaxial growing, germ	anium, crystal dislocation
characteristics of epitaxial germanic dislocation density and its distribution	y with the morphological and structural um layers grown by the iodide process. The tion over the thickness of the layers are
ionation of Gelo in the gas phase i	[Fe(CN)6] + 12 pts. KOH + 100 pts. H <sub>2</sub> O. As ss rises, the role of homogeneous dispropor- ncreases. As a result, the structure of the
is advanced concerning the general m	ticular, stacking faults appear. A hypothesis ature of stacking faults and trigonal growth anism accounting for both of these formations

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is proposed. The morpholog internal structure. Smooth density and increasing the authors thank <u>K. A. Bol'sha</u>	h deposits are ob uniformity of the	stained by decre leir distributio	asing the dis n in the laye	location rs. "The
authors thank K, A. Bol she throughout the course of th assistance in the experimen electron microscope." Orig	he study <u>, A.M. Ar</u> nts, and V. G. Kl	nisimova and <u>T.</u> nolodova for tak	B. Pleskachev	tor
ASSOCIATION: none				
SUMMITTED: 18Feb65	ENCL: 00	SUB CO	DE: SS, IC	
NO REF SOV: 005	OTHER: 004			

DORFMAN, V.F.; <u>HELOKON', M.S.</u>; KRASNOVA, G.F.; TOLKAGHEVA, G.N. Conditions of growth as affecting certain properties of epitaxial layers of germanium. Izv. AN SSSR. Neorg. mat. 1 nc.7:1016-1020 Jl '65. (MIRA 18:9)

APPROVED FOR RELEASE: 06/08/2000

PELOKON', M.P.; ROMANOVA, K.V. Constant State State Organization of calculation of morbidity. Sov. zdrav. 13 no.4: 48-49 J1-Ag 154. (HLRA 7:9) 1. Iz Nauchno-metodicheskogo byuro sanitarnoy statistiki Ministerstva sdravookhraneniiya SSSR. (VITAL STATISTICS, morbidity, method of calculation in Russia)

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### CIA-RDP86-00513R000204410004-6

BELOKON', M.Ye.; INOZEMTSEV, G.B.; KOZIRINA, A.P.; VOZNYUK, V.S.; OSTIYAN, Z.Yu.; KOZUB, M.M.; MAN'KO, Ya.V.
Rlectric apparatus for chair varnishing. Der. prom. 12 no.9; 11-12 S '63. (MIRA 16:10)
1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki drevesiny (for Belokon', Inozemtsev, Kozyrina, Voznyuk).
2. Irshavskiy mebel'nyy kombinat (for Ostiyan, Kozub, Man'ko).

APPROVED FOR RELEASE: 06/08/2000

BELOKON', M.Ye.; INOZEMTSEV, G.B. Methods for analyzing paint concentration in the atomizing jet during painting in an electric field. Lakokras.mat. i ikh prim. no.4:46-47 '62. (MIRA 16:11)

APPROVED FOR RELEASE: 06/08/2000

KOZYRINA, A.P.; YAKHNO, A.G.; BELOKON', M.Ye.

Use of ultrasonic waves in electric spray painting. Der. prom. 14. no.8:4-6. Ag. 165. (MIRA 18:10).

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki drevesiny.

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Service Services

BELOKON', N.I., prof., doktor tekhn. nauk, zasluzhennyy deyatel' nauki i tekhniki RSFSR

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Concerning IA.Z. Kazavchinskii and V.S. Zhukovskii's remarks on the book "Thermodynamics." Izv. vys. ucheb. zav.; energ. 7 no.2:115-119 F '64. (MIRA 17:3)

APPROVED FOR RELEASE: 06/08/2000



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KHAIMOV, B.Ya.; BELOKON', N.I.

المراجع فالمعرف وتراجع والمراجع

Manufacture and application of loop yarn made with acetate silk. Tekst. prom. 24 no.5:29-34 My '64 (MIRA 18:2)

1. Rukovoditel' laboratorii po pererabotke khimicheskikh volokon Uzbekskogo nauchno-issledovatel'skogo instituta shelkovoy promyshlennosti (for Khaimov). 2. Starshiy dessinator Margelanskogo shelkovogo kombinata (for Belokon').

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BELOKON', ".I. BIKCHENTAY, R.N.; MATVEYEV, A.V.; PORSHAKOV, B.P.; TOINBERKOV, B.S.; BARMIN, S.F.; MOROZ, A.P. Field testing the GT-700-5 gas turbine installation and its recuperator. Gaz.prom. 10 no.11:16-24 '65. (MIRA 1921)

APPROVED FOR RELEASE: 06/08/2000

NIKITIN, V.N.; STAVITSKAYA, L.I.; BELOKON', N.S.; PAYKOVA, L.N.; SPRENNE, M.V.; YASHINA, L.N.

Ontogenesis of the edrenal glands and thymicolymphoid orgars under normal conditions and following intermittent growthinhibiting diet. Zhur. evol. bickhim. i fiziol. 1 no.1:45-51 Ja-F <sup>1</sup>65. (MIRA 18:6)

1. Kafedra fiziologii cheloveka i zhivotnykh i Otdel ontofiziologii Biologlcheskogo instituta Khar kovskogo gosudarstvennogo universiteta 1m. A.M. Gor'kogo.

APPROVED FOR RELEASE: 06/08/2000

BELOKON', S.M. [Bilokin', S.M.]

Behavior of pyrite sulfur during the semicoking of brown cosl. Dop., AV URSR no.2:207-211 '62. (MIRA 15:2)

1. Institut teploenergetiki AN USSR. Predstavleno akademikom AN USSR I.N.Frantsevichem [Frantsevych, I.M.]. (Coal\_Carbonization)(Sulfur)

APPROVED FOR RELEASE: 06/08/2000

:	Determining the temperature of semicoke ingnition. Teploenergetika 9 no.11:52-54 N '62. [MIRA 15:10]
	1. Institut teploenergetiki AN UkrSSR. (Coke-Combustion)
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SHCHOGOLEV, G.M. [Shchoholiev, H.M.]; BELOKON', S.M. [Bilokon', S.M.]
Some problems of the semicoking of gas coals with a solid heat
exchanger. Zbir. prats' Inst. tepl. AN URSR no.25:9-15 '62.
(MIRA 17:1)

APPROVED FOR RELEASE: 06/08/2000

HELOROWIS.M. [Bilokon', S.M.]; GREBENYUK, A.F. [Hrebeniuk, A.F.]; MURMILOV, A.V.; KONOMENKO, V.Ye. [Konomenko, V.IE.] Effect of the heating time on the yield of the product in the semicoking of Donets gas coals with a solid heat exchanger. Zbir. prats' Inst. tepl. AN URSR no.25:16-24 '62. (MIRA 17:1)							
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BELOKON', S.M. [Bilokon', S.M.] Behavior of sulfate sulfur during the semicoking of brown coal. Zbir. prats. Inst. tepl. AN URSR no.25:44-50 '62. (MIRA 17:1)

APPROVED FOR RELEASE: 06/08/2000

BELOKON', S.M., inzh.; BAZEYEV, Ye.T., inzh.

Investigation of the effect of the operation of an industrial furnace working as a generator of a solid heat carrier on the combustion temperature. Energ. i elektrotekh. prom. no.1: 15-16 Ja-Mr'64. (MIRA 17:5)

APPROVED FOR RELEASE: 06/08/2000

BAZEYKV, Ye.T.; BELOKON, S.M.; KORMYSHEV, V.V.

Utilization of Lvov-Volyn' Basin coals as fuel and source of chemicals. Khim i tekh. topl. i masel 9 no.3:41-44 Mr'64 (MIRA 17:7)

APPROVED FOR RELEASE: 06/08/2000

BAZEYEV, Ye.T.; HELOKON', S.M.; FILONENKO, Yu.Ya.; SHCHEGOLEV, G.M. Dust removal from gases in the precondensers of industrial power systems. Khim. i tekh. topl. i masel 10 nc.3:37-41 Mr '65. (MIRA 18:11)

APPROVED FOR RELEASE: 06/08/2000

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ONOKHIN, V.F., insh.; <u>BELOKON', V.A.</u>, insh.; LEBEDEVA, N.I., insh., red.; ALKKSEYEVSKAYA, Ye.A., red.; SKLEZHOV, P.I., tekhn.red.

> [Defects in lead bronze bearing linings] O defektakh vkladyshei, zalivaemykh svintsovistoi bronzoi. Moskva, TSentr.biuro nsuchnotekhn.informatsii tiazhelogo mashinostroeniia, 1959. 25 p. (NIRA 14:1)

(Bearings (Machinery)) (Lead bronze)

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S/032/60/026/010/032/035 B016/B054

Belokon', V.A., Chief, and Beloborodova, O. S., Substitute AUTHORS : Chief Work of the Central Laboratory of the Sverdlovsk Turboengine TITLE: Works Zavodskaya laboratoriya, 1960, Vol. 26, No. 10, pp.1184-1185 PERIODICAL: TEXT: The authors report on the revision of the essential fields of work carried out at the Central Laboratory of the Sverdlovsk Turboengine Works. This revision was urged in the resolutions of the Plenary Meeting of the TsK KPSS (Tsentral'nyy komitet Kommunisticheskoy partii Sovetskogo soyuza, Central Committee of the Communist Party of the USSR) in June, 1959. According to these resolutions, the work of introduction of materials with a more economical consumption, as well as the restriction of the use of scarce goods should be much intensified. This should be done at the expense of pure control work. According to the authors' statement, the extension of automation- and mechanization work of production methods, as well as the introduction of new economical materials, has trebled during Card 1/3

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Work of the Central Laboratory of the Sverdlovsk Turboengine Works s/032/60/026/010/032/035 B016/B054

1960 (as compared with 1959). By the end of 1959, the chrome plating of piston rings without lapping was automatized, and a nondestructive method of controlling surface hardening was introduced. This type of chrome plating also permits a more frequent and qualitatively better control than the former type. In the electro-refining department, research and introduction work with high-frequency current was carried out. This work permitted an automation and mechanization of the refining operations during the mechanical treatment without a transfer into the refining department. These and other similar measures will save 2.3 million rubles a year. The refining method mentioned is applied to distributor- and crankshafts. During 1960, further engine parts are refined in this way, which allows a replacement of high-alloyed steel grades by lower-alloyed ones. A special laboratory for electrorefining is being established. The Metallograficheskaya laboratoriya (Metallographic Laboratory) of the authors' laboratory, together with the Sverdlovskiy proyektnotekhnologicheskiy institut (Sverdlovsk Institute of Planning and Technology), is working at the refining of gears on a semiautomatic assembly line. The Gruppa plastmass (Group of Synthetics) of the authors ' laboratory will be extended to an independent laboratory by the end of 1960. By the replacement of various alloys by synthetics in the production of Diesel engine parts, it was Card 2/3

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Work of the Central Laboratory of the Sverdlovsk Turboengine Works s/032/60/026/010/032/035 B016/B054

possible to save 7 t of aluminum alloy, 35 t. of copper, and 4 t of tin yearly. The possibility of replacing difficultly available nonferrous metals by others is being studied. Engineers, technicians, and laboratory assistants of the authors' laboratory constantly cooperated, besides their research work, in the introduction of modern techniques in the individual factory departments, and in the saving program of nonferrous metals and electric power. Thanks to the resolutions mentioned at the beginning, work at the Central Laboratory was much extended; seven new engineers and technicians were engaged. With the introduction of the 7-hour working day with a simultaneous increase in salaries for research engineers, the exodus of experts was stopped. In a very near future, the six laboratories of the Central Laboratory will be concentrated in a new building.

ASSOCIATION: Tsentral'naya laboratoriya Sverdlovskogo turbomotornogo zavoda (Central Laboratory of the Sverdlovsk Turboengine Works)

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APPROVED FOR RELEASE: 06/08/2000

Muserion , A. H.

"Properties of Uniform Shock Waves in Luminous Gas at  $M \rightarrow \infty$  ,"

Research in Physics and Radio Engineering, Moscow, Oborongiz, 1958. p. 92.

The book is a collection of 13 articles written by instructors and graduate and undergraduate students of the Moscow Inst. of Physics and Technology. The articles discuss problems in radiophysics, optics and physics.

APPROVED FOR RELEASE: 06/08/2000



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24(8) AUTHOR:	Belokon', V. A. SOV/56-36-1-60/62
TITLE:	The Vanishing of the Isothermal Jump in the Case of a Great Density of Radiation (Ischeznoveniye izotermicheskogo skachka pri bol'shoy plotnosti izlucheniya)
PERIODICAL:	Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 1, pp 341-343 (USSR)
ABSTRACT:	Also in the present paper gas is considered to be a heat- conductive continuous medium which conserves the local thermo- dynamic equilibrium. The author shows that the isothermal jump
: : :	vanishes in a sufficiently hot gas. The equation of state and the equation for enthalpy are written down by taking radia- tion density into account. The isothermal velocity of sound increases relatively slowly. Equations are written down for
	the state of the gas behind the shock wave. Cne of these equations is equivalent to the condition for the monotony of temperature along the direct evolution of the heat-conductive gas within the shock wave. This applies also to a nonradiating gas. In conclusion, an expression is derived for the total
Card $1/2$	compression on a wave in a radiating gas. This equation corresponds to the transformation of the isothermal

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The Vanishing of the Isothermal Jump in the Case SOV/56-36-1-60/62 of a Great Density of Radiation jump in isothermal sound. The author thanks the researchers of the Institut khimicheskoy fiziki (Institute for Chemical Physics) K. Ye. Gubkin, O. S. Ryzhov, and A. A. Milyutin for their useful discussions. There are 4 references, 3 of which are Soviet. Institut khimicheskoy fiziki Akademii nauk SSSR (Institute ASSOCIATION: of Chemical Physics of the Academy of Sciences, USSR) SUBMITTED: October 18, 1958 Card 2/2

APPROVED FOR RELEASE: 06/08/2000

HUSCRADING I

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48 SEE

21(7) AUTHOR:	Belokon', V. A.	SO¥/56-36-4-57/70
TITLE:	The Permanent Structure of Shock Wa (Permanentnaya struktura udarnykh v dissipatsiyey)	ves With Joulean Dissipation oln s dzhoulevoy
PERIODICAL:	Zhurnal eksperimental'noy i teoreti Nr 4, pp 1316-1317 (USSR)	cheskoy fiziki, 1959, Vol 36,
ABSTRACT:	In the present "Letter to the Editor absurdity in the theory of magnetohy an entropy variation by a unique fac occurs as Joulean heat, the equation which describe a time-constant homog magnetic lines of force, are determin thermodynamic parameters according to for mass and momentum. It holds that $d(RT/V + H^2/8\pi)/dV \equiv dp/dV = -(9u)^2$ tions of thermole	ydrodynamic shock waves. If ctor in a continuous medium 18 of magnetohydrodynamics, geneous flow transverse to ined by the evolution of the to the laws of conservation t = $-(0u)^2$ with the condi-
	Here, the endeavor to obtain a conti	$x = (c^2/16\pi^2 c)(dH/dx)^2 \ge 0.$
Card 1/2	Here, the endeavor to obtain a conti - $(u/V)^3$ TdS/dV = $(c^2/16\pi^2 6)(dH/dV)^2$ dp	Nucue estudi

SOV/56-36-4-57/70 The Permanent Structure of Shock Waves With Joulean Dissipation the case of a decrease of entropy, pressure tends towards a total value with negative gradient, which is equal to a triplicity of the flow parameters in space. In view of this absurdity of the continuous solution the author deems it necessary to postulate a Riemann or isentropic discontinuity of the flow parameters within the compression wave, similar to the isothermal point of discontinuity for a purely heat-conductive gas. The author finally thanks K. Ye. Gubkin for discussions. There are 8 references, 6 of which are Soviet. Institut khimicheskoy fiziki Akademii nauk SSSR (Institute for ASSOCIATION: Chemical Physics of the Academy of Sciences, USSR) December 30, 1958 SUBMITTED: Card 2/2

APPROVED FOR RELEASE: 06/08/2000

BELOKON', V.A.; BELOBORODOVA, O.S.

Work of the Central Labratory of the Sverdlovsk Turbomotor Plant. Zav.lab 26 no.10:1184-1185 '60. (MIRA 13:10)

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AUTHOR :	Belokon', V.A.				
TIPLE:	Tendency of coupression	al vaves to reverse	and destroy thei	r isentropicity	
in the	absence of collisions be	tween particles or	ine prating		
AN Latv	OURCE: Sb. Vopr. magnit SSR, 1962, 349-351				
TOPIC T plasma,	AGS: shock wave, compre Meisenberg principle, f	reesing-in, magneti	y, isentropy, co ; line	Lision,	
TRANSLA	FION: In many cases the	effects of collision	ons do not play a	n essential	
the mer	plasmas. In these case netohydrodynamic equation	on in the isentropic	form. However,	cue abbilcacion	
of such	equations to the study	of compressional wa	ves leads to the copressional wave	. Previously,	
argumen	ts of a special order we	ere advanced against	this conclusion;	for example,	
Card 1/2					

CIA-RDP86-00513R000204410004-6

L 15711-63 0 ACCESSION NR: AR3002650 that the width of the wave can not be less than the Debye length, etc. In the given work, two more rigorous proofs of the impossibility of reversing and of the possibility of increase of entropy during the absence of collisions in the more general case are presented. The first proof is based on the use of the Heisenberg indeterminacy relations. The second proof is obtained by proceeding from consideration of the low temperature plasma. It is shown that, in this case, during the "freezing in" of magnetic lines in the substance, the entropy may increase even in the absence of collisions. V.M. Kuptsov DATE ACQ: 14Jun63 SUB CODE: PH, NS BNCL: 00 Card 2/2

8/658/62/000/009/003/013 A059/A126

AUTHOR: <u>Belokon</u><sup>t</sup>, V.A.

TITLE:

On the thermodynamics of ideal explosions

SOURCE:

Moscow. Fiziko-tekhnicheskiy institut. Trudy. no. 9, 1962. Issledovaniya po mekhanike i prokladnoy matematike. 16 - 26

TEXT: The shock wave which has been introduced by Riemann as a solution to the paradoxon was analyzed which shows the ambiguities of parameters typical of an ideal compressible fluid. When Riemann's solution is being analyzed, the postulates concerning the shock waves and "reasonable" conditions in such explosions are stressed. In the sense of these postulates, it is appropriate to indicate the jumps of the parameters of the medium through Dirac's  $\delta$  function which is convenient for the quick derivation of the thermodynamic properties of these jumps, and for the refutation of criticism raised against Riemann's physical considerations. Riemann's jump is shown to be irreversible, and can be realized, in principle, by means of a radiant shock wave. New conclusions concerning the correlations in usual and relativistic explosions are methodically com-

Card 1/2

APPROVED FOR RELEASE: 06/08/2000

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On the thermodynamics of ideal explosions pared, and it is stated that the really registered compression in an infinitely strong relativistic jump tends to infinity; the real recording will give the values of inherent density and temperature. When vapor generation is considered, a faster increase in mass packing is achieved in the jump. A.N. Kolmo, corvy, S. V. Fonin, and L.D. Landau are mentioned. Thanks are due to V.M. Andreyev, Profersor R. Kurant, Doctor P. Laks, and, chiefly, to V.S. Imshennik for discussion and valuable comments.

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204410004-6

BELOKON . V. A. (MOSCOW)

网络印刷树属

"On the estimation of shock thickness from the principles of statistical mechanics"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 1964.

APPROVED FOR RELEASE: 06/08/2000

BELOKON', V. A.; PETRUKHIN, A. I.; PROSKURYAKOV, V. A. (MOSCOW)

"On the entry of a strong shock wave into a wedge-shaped cavity"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 1964.

APPROVED FOR RELEASE: 06/08/2000

<u>L.26058.65</u> ENT(1)/ENP(m)/FCS(k)/EWA(h) Pd=1/P1-4 ACCESSIGNT NR: AF5004372 AUTHOR: <u>Belokon', V. A.; Petrukhin, A. I.; Proskuryskov, V. A.</u> TITLE: Entrance of a strong shock wave into a vedge-shape cavity SOURCE: Zhurnal eksperimental 'noy 1 teoreticheskoy fiziki, v. 48, no. 1, 1965, 50-60 TOFIC TAGS: shock wave propagation, shock wave reflection, high temperature plasma, shock tube, shock wave, high pressure AMSTRACT: The authors investigated some features of multiple Mach reflections of converging strong shock waves produced by an electric spark discharge in a shock tube made of iron with an approximate inside diameter of 110 mm. The energy stored vas about 8000 J, with exproximately 3000 J released in the gap (802 of which was released in 8.5 µsec. The tube consisted of two sections, each 550 mm long, and to the end of the second section was connected a Plexiglas section, constituting a restangular channel 50 x 50 mm in cross section and 30 mm long. In the latter was j aced an insert in the form of a wedge-shaped cavity with an angle of 40° at the ver zer. ard 1/:		statist, 1953). Andre andre andre andre andre andre andre andre and
AUTHOR: <u>Belokon', V. A.</u> ; <u>Petrukhin, A. I.</u> ; <u>Proskuryakov, V. A.</u> TITLE: Entrance of a strong <u>shock wave</u> into a wedge-shape cavity SOURCE: Zhurnal eksperimental noy 1 teoreticheskoy fiziki, v. 48, no. 1, 1965, 50-60 TOFIC TAGS: shock wave propagation, shock wave reflection, high temperature plasma, shock tube, shock wave, high pressure ARSTRACT: The authors investigated some features of miltiple Mach reflections of converging strong shock waves produced by an electric spark discharge in a shock tube made of iron with an approximate inside diameter of 110 mm. The energy stored was about 8000 J, with approximately 3000 J released in the gap (802 of which was released in 8.5 µsec. The tube consisted of two sections, each 550 mm long, and to the end of the second section was connected a Plexiglas section, constituting	1:26058+65 EWT(1)/EWP(m)/FCS(k)/EWA(h) Pd+1/P1-4	<>
AUTHOR: <u>Belokon'. V. A.</u> ; <u>Petrukhin, A. I.</u> ; <u>Proskuryskov, V. A.</u> TITLE: Entrance of a strong <u>shock wave</u> into a wedge-shape cavity SOURCE: Zhurnal eksperimental 'noy 1 teoreticheskoy fiziki, v. 48, no. 1, 1965, 50-60 TOPIC TAGS: shock wave propagation, shock wave reflection, high temperature plasma, shock tube, shock wave, high pressure ABSTRACT: The authors investigated some features of multiple Mach reflections of converging strong shock waves produced by an electric spark discharge in a shock tube made of iron with an approximate inside diameter of 110 mm. The energy stored was about 8000 J, with approximately 3000 J released in the gap (802 of which was released in 8.5 µsec. The tube consisted of two sections, each 550 mm long, and to the end of the second section was connected a Plexiglas section, constituting a rectangular channel 50 x 50 mm in cross section end 320 mm long. In the latter was jaced an insert in the form of a wedge-shaped cavity with an angle of 40° at the veriex.	//////////////////////////////////////	60 14
<ul> <li>SOURCE: Zhurnal eksperimental 'noy 1 teoreticheskoy fiziki, v. 48, no. 1, 1965, 50-60</li> <li>TOPIC TAGS: shock wave propagation, shock wave reflection, high temperature plasma, shock tube, shock wave, high pressure</li> <li>ABSTRACT: The authors investigated some features of multiple Mach reflections of converging strong shock waves produced by an electric spark discharge in a shock tube made of iron with an approximate inside diameter of 110 mm. The energy stored was about 6000 J, with approximately 3000 J released in the gap (60% of which was released in 8.5 µsec. The tube consisted of two sections, each 550 mm long, and to the end of the second section was connected a Plexiglas section, constituting a rectangular channel 50 x 50 mm in cross section end 320 mm long. In the latter was pacel an insert in the form of a wedge-shaped cavity with an angle of 40° at the veriex.</li> </ul>	AUTHOR: Belokon', V. A.; Petrukhin, A. I.; Proskuryskov, V. A.	· ß
TOPIC TAGS: shock wave propagation, shock wave reflection, high temperature plasma, shock tube, shock wave, high pressure ARSTRACT: The authors investigated some features of multiple Mach reflections of converging strong shock waves produced by an electric spark discharge in a shock tube made of iron with an approximate inside diameter of 110 mm. The energy stored was about 8000 J, with approximately 3000 J released in the gap (80% of which was released in 8.5 µsec. The tube consisted of two sections, each 550 mm long, and to the end of the second section was connected a Flexiglas section, constituting a rectangular channel 50 x 50 mm in cross section and 320 mm long. In the latter was placed an insert in the form of a wedge-shaped cavity with an angle of 40° at the veriex.	TITLE: Entrance of a strong shock wave, into a wedge-shape cavity	
ARSTRACT: The authors investigated some features of miltiple Mach reflections of converging strong shock waves produced by an electric spark discharge in a shock tube made of iron with an approximate inside diameter of 110 mm. The energy stored was about 8000 J, with approximately 3000 J released in the gap (802 of which was released in 8.5 µsec. The tube consisted of two sections, each 550 mm long, and to the end of the second section was connected a Flexiglas section, constituting a rectangular channel 50 x 50 mm in cross section and 320 mm long. In the latter was paced an insert in the form of a wedge-shaped cavity with an angle of 40° at the veryer.	SOURCE: Zhurnal eksperimental noy 1 teoreticheskoy fiziki, v. 48, no. 1, 1 50-60	1965,
tube made of iron with an approximate inside diameter of 110 mm. The energy stored was about 8000 J, with approximately 3000 J released in the gap (802 of which was released in 8.5 µsec. The tube consisted of two sections, each 550 mm long, and to the end of the second section was connected a Plexiglas section, constituting a rectangular channel 50 x 50 mm in cross section end 320 mm long. In the latter was paced an insert in the form of a wedge-shaped cavity with an angle of 40° at the vertice.	TOPIC TAGE: shock wave propagation, shock wave reflection, high temperature	<b>t</b> €
an insert in the form of a wedge-shaped cavity with an angle of 40° at the verser.	tube made of iron with an approximate inside diameter of 110 mm. The energy was about 8000 J, with approximately 3000 J released in the gap (80% of whi released in 8.5 µsec. The tube consisted of two sections, each 550 mm long	shock y stored ch waa ; and
Cord 1/:	a rectangular channel 50 x 50 mm in cross section and 320 mm long. In the latter was an insert in the form of a wedge-shaped cavity with an angle of 40° at the	uting s jacal ver ær.
	ord 1/2	

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ACCESSION NR: AP5004372

The total distance from the discharge gap to the vertex of the wedge cavity was 1300 mm. The tube was filled with atmospheric air. The initial pressure prior to the explosion was measured with a McCleod gauge. After each explosion, the tube was refilled with air and pumped out to one of the three initial pressures: 0.1, 0.2, and 0.5 mm Hg. The shock-wave front velocity was measured with an SFR camera with a mirror speed of 60,000 rpm. The passage of the shock wave in the wedge region was photographed at  $2 \times 10^{\circ}$  frames per second by the SFR camera used as a time magnifier. The visible region of the shock wave spectrum was photographed with an ISP-51 spectrophotograph. The results have shown that the multiple irregular (Mach) reflections of a strong shock wave entering the wedge-shape cavity increase noticeably the plasma temperature, increase the mass density by more than 100 times, and increase the glow brightness by more than 1,000 times compared with the plasma characteristics behind the shock wave. At the vertex of the wedge-shape cavity plasma is produced which radiates like a grey body with a brightness temperature 35 x 103 K. The electron density in the wedgeshape cavity is almost ten times larger than in normal reflection from a flat wall (under the same initial shock-wave parameters), and the brightness of the glow increases by approximately 50 times. This can be used to produce a high-

Card 2/3

APPROVED FOR RELEASE: 06/08/2000

ACCESSION NR: AP5004372 intensity light source.	"We thank Professor G T Poly	ovskly for suggesting the
Nemchinov for valuable di Orig. art. has: 6 figure	scussions and Z. N. Stepchenkov s, 3 formulas, and 8 tables.	or <u>K. Moravets</u> , and <u>I. V.</u> v for calculations." [02]
SURMITTED: 15Jun64	ENCL: 00	SUB CODE: ME
No Ref Sov: 007	OTHER: 008	ATD PRESS: 3186

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L 16063-66 ACC NR: AP6002368 AUTUOR AUTUOR	•••	O
AUTHOR: Belokon', V. A. (Moscow) ORG: None	59	
TITLE: Interpolation formula for the shock front thickness	9	3
SOURCE: Zhurnal prikladnoy mekhaniki tekhnicheskoy fiziki, no. 6, 1965, 125-129 TOPIC TAGS: shock wave structure, shock wave front, statistic mechanics		
ABSTRACT: It is impossible to determine exactly the thickness of the discontin- uity and the structure of the shock wave even in the case of a gas consisting of elastic spheres. The present article attempts to estimate the thickness of the detailed qualitative description of its structure. The basis of the method was outlined elsewhere (O vyvode otsenki tolshchiny skachka iz printsipov statisti- mekhanike. Izd-vo AN SSSR, 1964, p. 31). Here, using the linearity condition		C
or Card 1/2		

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 $\sim$ L 16063-66 ACC NR: AP6002368 3 the author presents rough illustrations of the method of thickness estimates for various media (collisionless plasma, elastic sphere gas, Maxwellian molecules) and compares it with data found in the literature. In the future best results may be expected in laser measurements at different wavelengths while studying the structure of the discontinuity in solids in the gamma and X-ray range. Author thanks K. Ye, Gubkin, V. S. Imshennik, and coworkers of the Theoretical Department, 0 Institute of Physics, AN Latvian SSR (Institut fiziki AN Latviyskoy SSR) for stimulating criticism. Orig. art. has: 17 formulas and 1 figure. SUB CODE: 20 / SUBM DATE: 12Jun65 / ORIG REF: 006 / OTH REF: 018 Card .2/2

APPROVED FOR RELEASE: 06/08/2000

BELOKCH', V.G.; ELINSON, M.M.

Distribution of gas in the formation of coal bearing sediments in the diamond region of the Donets Basin. Izv. vys. ucheb. zav.; geol. i razv. 8 no. 12:64-70 D '65 (MIRA 19:1)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.

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APPROVED FOR RELEASE: 06/08/2000

BELOKON', V.V., inzh.; AKUNOV, V.I., kand. tekin, nauk

Iron removal from quartz sand during its grinding on a counterflow-type jet mill. Stek. i ker. 22 no.12:22-25 D '65. (MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov.

APPROVED FOR RELEASE: 06/08/2000

REP.

REAL FRAME

RUDYSHIN, M.P. [Rudyshyn, M.P.]; BELONON', Ye.M. [Bilokon', O.M.] Materials on the gamasid mites of insectivores and rodents of the upper Dniester Basin. Mauk. zap. Nauk-pyrod. muz. AN UMER 9:61-68 '61. (MIRA 15:2) 1 (Dniester Valley--Mites) (Parasites-Insectivora) (Parasites-Rodentia)

APPROVED FOR RELEASE: 06/08/2000

BELIKOV, V.M.; BELOKON', Yu.N. Nucleophilic addition of a magnesium complex of nitroacetic acid. Izv. AN SSSR. Ser. khim. no.6:1134 Je '64. (MIRA 17:11) 1. Institut elementoorganicheskikh soyedineniy AN SSSR.


APPROVED FOR RELEASE: 06/08/2000

•	• : 1 *		
	18.200	77423 SOV/130-60-	1-6/22
	AUTHOR:	Belokonenko, N. A. (Foreman of Maintenance S Krivoy Rog Plant)	hop of
	TITLE :	Replacement of the Ignition Furnace in the Si Machine	ntering
	PERIODICAL:	Metallurg, 1960, Nr 1, pp 12-13 (USSR)	
	ABSTRACT: Card 1/3	For speeding up the repairs of refractory lin the ignition furnace, the following method su by the author at the Krivoy Rog plant was use Alongside of the sintering machine a reserve is placed; it can be substituted for the worr furnace by means of the special fixture showr 1. During the replacement Skids are raised in together with the hearth, and placed on the r the frame of the sintering machine. After the sintering machine is reversed, and the hearth the right position for the assembly. Using the method, the time of repairs decreased from 24	nggested furnace n-out n in Fig. by a winch rails of nat the n placed in chis
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77423 Replacement of the Ignition Furnace in sov/130-60-1-6/22 the Sintering Machine See Fig. 1 on Card 2/3 Fig. 1. Fixture for the replacement of the ignition furnace in the sintering machine: (a) reserve furnace, placed alongside sintering machine; (b) hearth on the supports of sintering machine. (1) Frame; (2) rails; (3) skid; (4) guide channels; (5) lug of the furnace. There is 1 figure. Krivoy Rog Metallurgical Plant ASSOCIATION: Card 3/3eler el de la des

APPROVED FOR RELEASE: 06/08/2000



	ONENKO, S.K. meous - Cranes
Card 1/1	1 Pub. 70 - 8/9
Aathors	: Belokonenko, S. R., Engineer
Title	* Mechanized unloading of loose materials from trucks
Periodical	Mekh. stroi. 9, 30-31, March 1954
Abstract	A TL-2 crane, especially designed for unloading loose materials (sand, and gravel) from trucks, is described. Drawing.
Institution	에는 방법에 가지 않는 것은 것은 것을 가지 않는 것을 알려 있다. 것은
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	Experie stroi.	12 no	sing cement .2:20-21 F machinery)	·55.	machines	in road	construction. (MIRA 8;	Mekh. 4)	-	
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### CIA-RDP86-00513R000204410004-6

## BELOKONENKO, S.

PPF-18 semitrailer for carrying trusses. Prom. stroi. i inzh. soor. 4 no.3:52 My-Je 162. (MIRA 15:7)

1. Nachal'nik otdela mekhanizatsii i avtomatizatsii Orgtekhstroya upravleniya stroitel'stva Odesskogo sovnarkhoza, (Truck trailers) (Trusses--Transportation)



Citro .

KOSENKO, B.T., inzh.; BELOKONENKO, S.Ya. [Bilokonenko, S.IA.], inzh.

Electric resistance buildup of parts. Mekh. sil'. hosp. 14 no.10: 3-5 0 '63. (MIRA 17:2)

l. <sup>M</sup>elitopol'skiy institut mekhanizatsii sel'skogo khozyaystva (for Kosenko). 2. Yakimovskaya issledovatel'skaya stantsiya mekhanizatsii sel'skogo khozyaystva (for Bilokonenko).

APPROVED FOR RELEASE: 06/08/2000

EELOEONETY, L.N., kandidat tekhnicheskikh nauk. Iffect of steam temperature and mumber of valve strokes on the economic operation of steam engines. Trudy MEMIIT no.62:136-154 '53. (Steam engines) (MIRA 7:12)

APPROVED FOR RELEASE: 06/08/2000

SHCHETININ, N.V., kand. tekhn. nauk, dots.; BELOKONEW, L.N., kand.tekhn.nauk, dots.; GORODETSKII, M.N., kand. tekhn.nauk, assistent Performance of locomotive diesel engines under operating conditions. Trudy MIIT no.112:5-22 '59. (MIRA 13:2) (Diesel locomotives)

APPROVED FOR RELEASE: 06/08/2000

"APPROVED FOR RELEASE: 06/08/2000

BOLKHOVITINOV, G.F., prof.; SHCHETININ, N.V., dotsent; EELOKONEV, L.N., dotsent; CORODETSKIY, M.N., dotsent Load and economic characteristics of the TE3 diesel locomotive under operational conditions. Trudy MIIT no.138:5-12 \*@1. (NIRA 14:12) (Diesel locomotives--Testing)

APPROVED FOR RELEASE: 06/08/2000

TOTESNE

0.910366

GRYAZNOVA, Z.V.; PANCHENKOV, G.M.; <u>BELOKONEV, S.V.</u> Application of N.A.Shilov's formula for calculating the velucity of adeorption front motion in a countercurrent of sorbate and sorbent. Shur.prikl.khim. 38 no.6:1395-1396 Je '65. (MIRA 18:10) 1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.

APPROVED FOR RELEASE: 06/08/2000

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BELOKONOV, V. M.

"Calculation of Aerodynamic Characteristics of Thin Airfoil of Low Elongation of Arbitrary Design from the Theory of Supporting Surfaces." Min Higher Education USSR, Moscow Order of Lenin A lation Trust imeni S. M. Kirov, Tomsk, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SO: M-955, 16 Feb 56

APPROVED FOR RELEASE: 06/08/2000



### CIA-RDP86-00513R000204410004-6

BELOKONOVA, A.F., inzh.

Operation of automatic reagent proportioning devices in water purifying systems. Elek. sta. 34 no.10:80-81 0 '63. (MIRA 16:12)

APPROVED FOR RELEASE: 06/08/2000

# BELOKDESKAYA, N.V. Bechterew's disease and its orthopedic treatment. Trudy Len.gos. nauch.-issl.inst.travm. 1 ortop. no.7:192-202 '58. (MIRA 13:6) 1. Ortopedicheskoye otdeleniye Leningradskogo gosudarstvennogo nauchno-issledovatel'skogo instituta travmatologii 1 ortopedii. (ARTHRITIS, RHEUMITOID) (SPINE--DISEASES)

APPROVED FOR RELEASE: 06/08/2000

# BELOKONSKAYA, N.V.

Orthopedic supply in Bechterew's disease. Trudy Len.gos.nauch.issl.inst.travm.i ortop. no.7:203-209 58. (MIRA 13:6)

1. Iz ortopedicheskogo otdeleniya Leningradskogo gosudarstvennogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii.

(ORTHOPHDIC APPARATUS) (ARTHRITIS, RHEUMATOID)

APPROVED FOR RELEASE: 06/08/2000

"APPROVED FOR RELEASE: 06/08/2000

BULGARIA/Human and Animal Physiology (Normal and Pathological) Т The Effect of Physical Factors. Ionizing Irradiation : Ref Zhur Biol., No 6, 1959, 27205 Abs Jour Belokonski, Il. Author : Inst : Changes of Alimentary Conditioned Reflexes in White Rats Title in General Irradiation with X-Rays. : Voyen.-med. delo (Bolg.), 1957, 12, No 5, 22-28 Orig Pub Conditioned reflexes (CR) were produced in rats accord-Abstract : ing to the methods of Kotlyarovski and Ganike. Even in the process of irradiation (after a surmary dose of 500 r, the irradiation was temporarly discontinued and the state of CR was studied), inhibition of CNS in the course of 4-14 min was observed, after which gradual resto-ration of its function was noted. After final irradiation at a dose of 800 r, CR disappeared again for 4-10 min and, in the course of the subsequent 2 days, the Card 1/2- 177 -

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BULGARIA/Human and Animal Physiology (Normal and Pathological) The Effect of Physical Factors, Ionizing Irradiation

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: Ref Zhur Biol., No 6, 1959, 27205

inhibition continued to grow. Cn the 4th day, signs of restoration of CNS appeared. On 6-7th day it was completely restored. In the course of 8-9 days, the aninals were in apparently good condition, but later signs of progressing inhibition of CNS appeared again. In the course of 9-13 days, all rats perished. On the day of death, CR were totally absent and rats did not react either to positive or to inhibitory stimuli. --G.A. Zubovskiy

Card 2/2

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204410004-6



APPROVED FOR RELEASE: 06/08/2000

BELOKONSKI, I.S. (Bolgariya) Changes in the higher nervous activity of rats during L-irradiation. Ne.drad. 4 no.12:11-16 D \*59. (MIRA 13:5) (CENTRAL MERVOUS SYSTEM radiation eff.)

APPROVED FOR RELEASE: 06/08/2000

BELOKONSKI, I.S. (Bolgariya) Oxygen requirement during the irradiation of rats with modified resistance to radiations. Med. rad. 4 no.4:27-31 Ap '59. (MIRA 12:7) (ANOXIA, exper. eff. of chem. radioprotective substances on oxygen requirement in x-irradiated rats (Rus)) (RADIATION PROTECTION, same)

APPROVED FOR RELEASE: 06/08/2000



APPROVED FOR RELEASE: 06/08/2000