CIA-RDP86-00513R000204520015-2



APPROVED FOR RELEASE: 06/06/2000

FUNSHTEYN, L.V.; BELUGINA, Z.T. (Leningred)

Atypical manifestations of myeloid leukenia. Arkh.pat. 20 no.11:62-65 '58. (NIRA 12:8)

1. Iz TSentral'nogo nauchno-issledovatel'skogo rentgenoradiologicheskogo instituta (dir. - prof.M.N.Pobedinskiy). (LEUKEMIA) (MARROW--TUMORS)

APPROVED FOR RELEASE: 06/06/2000



MOZHAROVA, Ye.N.; BELUGINA, Z.T.

Comparative data on the therapeutic value of various methods of radiation therapy of polycythemia vera and the sequelae of this treatment. Frobl. gemat. i perel. krovi no.10:27-32 462. (MIRA 17:12)

1. Iz radioterapevticheskoy kliniki (zav. Ye.N. Mozharova) TSentral'nogo nauchno-issledovatel'skogo instituta meditsinskoy radiologii (direktor - Ye.I. Vorch'yev) Ministerstva zdravookhraneniya SSSR.

APPROVED FOR RELEASE: 06/06/2000

BELUGINA, Z.T.; KHACHKURUZOVA, E.S.

- - - - - - -

Dynamics of the hematopoietic activity of the gastric contents and the secretory activity of the stomach in radiophosphorus treatment of polycythemia vera. Med. rad. 8 no.7\$34-38 Jl 163. (MIRA 17:1)

1. Iz radioterapevticheskogo otdeleniya (zav. - kand. med. nauk Ye.N. Mozharova) TSentral'nogo nauchno-issledovatel'skogo instituta meditsinskoy radiologii (dir. Ye.I. Vorob'yev) Ministerstva zdravookhraneniya SSSR.

APPROVED FOR RELEASE: 06/06/2000

LAPCHENKOV, V.I.; BELUGINA, Z.T.

Methodology for the determination of p^{32} in the marrow of the long tubular hones of polycythemia patients according to the inhibiting irradiation in the extremities. Med. rad. 8 no.ll:13-20 N '63. (MIRA 17:12)

1. Iz laboratorii izotopnykh metodov issledovaniya (rukovoditel' -I.S. Osipov) i radicterapevticheskogo otdeleniya kliniki (zav. -Ye.N. Mozharova) TSentral'nogo nauchno-issledovatel'skogo instituta meditsinskoy radiologii (direktor Ye.I. Vorob'yev) Ministerstva zdravookhraneniya SSSR.

APPROVED FOR RELEASE: 06/06/2000







Ì

BRUK, A.S.; LEYBOVICH, R.Ye.; IVANOV, Ye.B.; SMUL'SON, A.S.; BELUKHA, A.A.; MUCHNIK, D.A.; FARTUSHNAYA, R.M.; Prinimali uchastiye: KUTEVOY, P.M.; GOL'DBERG, P.Ya.; NECHAYEVA, A.P.; KUBYSHKINA, L.I.; SHEYKHET, A.M.; VASIL'CHENKO, S.I.; BARASH, D.A.; KARPOVA, K.K.; KHODANKOV, A.T.

Effect of temperature changes in the control heating flues on the quality of the metallurgical coke. Koks i khim. no.7:26-27 163。 (MIRA 16:8)

1. Dnepropetrovskiy metallurgicheskiy institut (for Bruk, Leybovich, Kutevoy, Gol'dberg, Nechayeva, Kubyshkina, Sheykhet). 2. Krivorozhakiy metallurgicheskiy zavod (for Ivanov, Smul'son, Belukha, Muchnik, Fartushnaya, Vasil'chenko, Barash, Karpova, Belukna, Khodankov). (Coke ovens)

(Coke-Testing)

APPROVED FOR RELEASE: 06/06/2000





CIA-RDP86-00513R000204520015-2



APPROVED FOR RELEASE: 06/06/2000

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520015-2



CIA-RDP86-00513R000204520015-2



APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204520015-2



APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204520015-2



APPROVED FOR RELEASE: 06/06/2000

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520015-2

		0KHA, P. G. 131-1-2/14	
	AUTHORS:	Tsigler, V. D., Belukha, P. G., Shakhnovich, I. G.	
	TITLE:	The Influence of Certain Technological Factors Upon the Properties of Light Refractory Kaolin Products (Vliyaniye nekotorykh tekhnolo- gicheskikh faktorov na svoystva kaolinovykh legkovesnykh ogneuporov)	
	PERIODICAL:	Ogneupory, 1958, Nr 1, pp. 5 - 11 (USSR)	
	ABSTRACT: Card 1/3	1.) The influence of aburnable addition upon the refractorizess and ceramic properties of light kadin products. Foundry coke and thermoanthracite in the piece were used as burnable admixtures. Laboratory tests and chemical analysis showed that by addition of a burnable addition the content of Al_2O_3 is decreased and that of Fe ₂ O_3 is increased (see table). The refractoriness correspondingly also decreases. Table 1 gives the ceramic properties of the burned test samples. 2.) The influence of the pressure altitude , the lean degree and the moisture content of the masses. The layer consisted of kaolin of the place of finding Vladimir of the type $B \prod -1$, fireproof clay of the same kaolin with water absorption up to 5,4 %, as well as anthracite with a 9,2 % content of ashes. The granulation of the mass under different conditions is given in figure 1. Figure 2 shows	
700 E			

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520015-2

 the dependence of the resistance of rupture of light kaolin products on pressure effect, lean degree and moisture content and figure 3 shows the same for the volumetric weight. 3.) The influence of the varieties of the lean admixture and its composition of grain upon the ceramic properties of light kaolin products. For this purpose a series of laboratory tests was performed with different layers. The compositions of layers and the ceramic properties of the binding and mineralizing additions upon the refractoriness and the ceramic properties of the light kaolin products. The composition of layers and the products. The composition of layers and the ceramic properties of the light kaolin products. The composition of layers and the properties of the light test samples are to be seen in table 5. 5.) The modification of the resistance to rupture and pressure of light kaolin raw material in the process of its heating is represented in figure 4. The tests are performed by A. A. Yeltysheva (reference 1). Conclusions: a) The refractoriness of the light kaolin products depends on the content of ashes of the burnable admixture used. b) Their volumetric weight depends on the combustible addition. c) The resistance to pressure and rupture of these products depends on 	the dependence of ducts on pressure figure 3 shows the 3.) The influence composition of great products. For this formed with differ ceramic properties 4.) The influence the refractoriness products. The comp test samples are 5.) The modification light kaolin raw man sented in figure 4 (reference 1).	effect, lean degree and moisture content and same for the volumetric weight. of the varieties of the lean admixture and its in upon the ceramic properties of light kaolin purpose a series of laboratory tests was per- ent layers. The compositions of layers and the of the products are given in table 4. of the binding and mineralizing additions upon and the ceramic properties of the light kaolin
 ducts on pressure effect, lean degree and moisture content and figure 3 shows the same for the volumetric weight. 3.) The influence of the varieties of the lean admixture and its composition of grain upon the ceramic properties of light kaolin products. For this purpose a series of laboratory tests was performed with different layers. The compositions of layers and the ceramic properties of the products are given in table 4. 4.) The influence of the binding and mineralizing additions upon the refractoriness and the ceramic properties of the light kaolin products. The composition of layers and the properties of the light test samples are to be seen in table 5. 5.) The modification of the resistance to rupture and pressure of light kaolin raw material in the process of its heating is represented in figure 4. The tests are performed by A. A. Yeltysheva (reference 1). Conclusions: a) The refractoriness of the light kaolin products depends on the content of ashes of the burnable admixture used. b) Their volumetric weight depends on the combustible addition. 	ducts on pressure figure 3 shows the 3.) The influence composition of grad products. For this formed with differ ceramic properties 4.) The influence the refractoriness products. The comp test samples are 5.) The modification light kaolin raw man sented in figure 4 (reference 1).	effect, lean degree and moisture content and same for the volumetric weight. of the varieties of the lean admixture and its in upon the ceramic properties of light kaolin purpose a series of laboratory tests was per- ent layers. The compositions of layers and the of the products are given in table 4. of the binding and mineralizing additions upon and the ceramic properties of the light kaolin
 (reference 1). Conclusions: a) The refractoriness of the light kaolin products depends on the content of ashes of the burnable admixture used. b) Their volumetric weight depends on the combustible addition. 	(reference 1).	osition of layers and the properties of the light to be seen in table 5. on of the resistance to rupture and pressure of aterial in the process of its heating is repre-
b) Their volumetric weight depends on the combustible addition.	a) The refractoring	ess of the light kaolin products depends on the
sru 2/) c) the resistance to pressure and rupture of these products de-		
	sru 2/) c) me resistance	to pressure and rupture of these products de-
		-

131-1-2/14 The Influence of Certain Technological Factors Upon the Properties of Light Refractory Kaolin Products pends on the moisture content of the masses, the lean degree of the layer by fireproof clay, their composition of grain, the introduction of a sintering admixture, the amount of pressure applied, the final temperature of burning and the duration of burning at this temperature. There are 4 figures, 6 tables, and 6 references, 4 of which are Slavic, and 1 English. ASSOCIATION: Institute forRefractory Products, Khar'kov (Khar'kovskiy institut ogneuporov) Factory for Fireproof Clay imeni Voroshilov (Shamotnyy zavod im. Voroshilova) Library of Congress AVAILABLE: 1. Refractory materials 2. Ceramics Card 3/3



S/131/60/000/04/01/015 B015/B008 AUTHOR: Belukha. TITLE: Short Oil-heated Tunnel Kiln for Firing Kaolin Products PERIODICAL: Ogneupory, 1960, No. 4, pp. 145-152 TEXT: In the paper under review, the author describes such a tunnel kiln put into operation at the Veliko-Anadol'skiy shamotnyy zavod (Veliko-Anadol'skiy Chamotte Works) in June, 1959, with an annual production of 40,000 t or kaolin refractories. This kiln construction was designed by the Ukrainskiy nauchnoissledovatel'skiy institut ogneuporov (UNIIO) (Ukrainian Scientific Research Institute of Refractories (UNIIO)), the design of a short kiln of the Vsesoyuznyy institut ogneuporov (VIO) (All-Union Institute of Refractories (VIO)) serving as a basis. The kiln is 60 m long and the drying plant 18 m. The scheme of the kiln is shown in Fig. 1. The fuel oil (mazut) is stored in 3 underground tanks of 50 t each, at a distance of 100 m each from the tunnel kiln. It is burned by means of 10 atomizers of the system Stal'proyekt (Fig. 2). The necessary compressed air is supplied by 2 blowers of the types VVD-8 and VVD-9. The secondary air is supplied by a blower of the type Sirokko N 6 1/2. Card 1/2

APPROVED FOR RELEASE: 06/06/2000

Short Oil-heated Tunnel Kiln for Firing Kaolin Products

S/131/60/000/04/01/015 B015/B008

The kiln lining consists of Dinas bricks in the high-temperature zone and of firebricks in the low-temperature zone. Kaolin products of a weight of up to 10 kg a piece, pressed in the plastic and semidry state, are fired in this kiln. The charge compositions are listed in table 1. The charging of the kiln is shown in Fig. 3. The temperatures in individual kiln parts are listed in table 2 and the pressure in table 3. The tunnel kiln is operated by 3 laborers. Its daily output (24 hours) is 100 t. The burner ducts are shown in Fig. 4, and the points at which the kiln temperatures are measured by means of optical pyrometers in Figs 5 and 6. The kiln temperatures at certain points of the kiln are compiled in tables 4-6, and the course of temperature in the kiln during firing in Fig. 7. The author finally states that the short tunnel kilns may be operated with fuel oil when using burners of a suitable construction, which simplifies the automation of the kilns. The ease and simplicity of kiln control with a small labor supply will make it possible to improve the quality of the refractories, to lower the production costs, and to increase productivity. There are 8 figures and 7 tables.

ASSOCIATION: Veliko-Anadol'skiy shamotnyy zavod (Veliko-Anadol'skiy Chamotte Works)

Card 2/2

APPROVED FOR RELEASE: 06/06/2000

1415

TSIGLER, V.D.; EXTURNA, P.O. Experimental calcination of Hightweight Eaclin brick in chort travel kling. Openpery 25 nc.12:545-549 '60. 1. (RELA 14:1) 1. Ukrainshij nauchne-isoledovatel'skiy institut equeupever (for TSigler). 2. Volike-andel'shiy sharotny; saved (for Bolukka). (Xaolin) (Firebrick)

APPROVED FOR RELEASE: 06/06/2000









State Lines 1 14



- DIMITRIYEVA, I.N., nauchnyy sotrudnik; EELUKHA, U.K., nauchnyy sotrudnik Comparative data on and late results of treating lupus erythematosus with resochin, aminoquinol and other substances. Vest.derm. i ven. no.1:23-30 '62. (NIRA 15:1) 1. Iz Uzbekskogo nauchno-issledovatel 'akogo kozhno-rentgenologicheskogo instituta (dir. - dotsent V.N. Matveyev). (LUPUS ERITHEMATOSUS) (QUINOLINE)

APPROVED FOR RELEASE: 06/06/2000

BELUKHA, U.K. Liver function and vitamin metabolism in the late cutaneousbullous form of porphyria. Vest.derm. i ven. 38 no.5:20-27 (MIRA 18:12) My 164. 1. Uzbekskiy nauchno-issledovatel'skiy kozhno-venerologicheskiy institut (dir. - dotsent V.N.Matveyev). Submitted March 9, 1963.

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520015-2





CIA-RDP86-00513R000204520015-2



CIA-RDP86-00513R000204520015-2



Relation between values of meteorological elements in the psychrometric booth and the upper extremities of plants during days of hot winds. Trudy TSIP no.41:72-82 '55. (MLRA 9:1) (Hygrometry) (Winds) (Meteorology, Agricultural)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204520015-2



APPROVED FOR RELEASE: 06/06/2000
"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520015-2

USSR/Cult:	ivat	ed Plants - Grains. M-2	
Abs J ^O ur	:	Ref Zhur - Biol., No 7, 1958, 29684	
Author	:	Belukhina, G.V.	
Inst	•	Central Forecasting Institute.	
Title	:	The Phytoclimate of Summer Wheat Under Irrigational Condi- tions in the European Territory of the USSR.	
Orig Pub	:	Tr. Tsentr. in-ta prognozov, 1957, vyp. 53, 105-141.	
Abstract	•	The results are given of research into the agrometeoro- logical conditions on the irrigated fields of Sarativskaya Krymskaya (Dzhankaya), Chkalovskaya (Buzuluk), Rostovs- kaya Oblasts and at the Khakasskaya Agrometeorological Station in Krasnoyarskiy Kray in 1952-1955. A single me- thod was used in all field observations. A study was made of soil water conditions, plant development and harvesting besides. The heat balance of the irrigated field's active	
Card 1/3		- 24 −	

CIA-RDP86-00513R000204520015-2

M-2 USSR/Cultivated Plants - Grains. : Ref Zhur - Biol., No 7, 1958, 29684 Abs Jour respectively. The wind velocity at the level of the height of the plants was reduced by 2-3 times the value registered by the weather vane. The substantial decrease in the harnful action of dry winds under the influence of irrigation is demonstrated. The bibliography lists 25 titles. Card 3/325

APPROVED FOR RELEASE: 06/06/2000

BELUKHINA, G.V.

Phytoclimatic conditions for the cultivation of corn in Moscow Province. Trudy TSIP no.88:3-14 '59. (MIRA 12:8) (Moscow Province--Corn (Maize)) (Crops and climate)

APPROVED FOR RELEASE: 06/06/2000

BELUKHINA, G.V.

.

A CONTRACTOR

Evaporation and temperature conditions of the air in corn fields. Trudy TSIP no.131:30-41 '63. (MIRA 16:9)

APPROVED FOR RELEASE: 06/06/2000

CHIRKOV, Yu.I.; BELUKHINA, G.V. Calculating the moisture supply of corn fields in various climatic zones of the U.S.S.R. Trudy TSIP no.131:3-12 '63. (MIRA 16:9)





CIA-RDP86-00513R000204520015-2



APPROVED FOR RELEASE: 06/06/2000



CIA-RDP86-00513R000204520015-2



APPROVED FOR RELEASE: 06/06/2000

ب

BELUSA, M.

Complications of blood transfusions in childhood. Cesk. pediat. 16 no.7/8:728-731 Jl-Ag '61.

1. I detska klinika lekarske fakulty v Brne, prednosta prof. dr. Zdenek Brunecky.

(BLOOD TRANSFUSION complications)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204520015-2



CIA-RDP86-00513R000204520015-2

1

BELUSA, M.

Syndrome of hemolytic anemia, thrombopenia and nephropathy. Cesk. pediat. 19 no.2:181-185 F'64.

1. I. detska klinika lekarske fakulty UJEvP v Brne; prednosta: prof.dr.Zd.Brunecky.

APPROVED FOR RELEASE: 06/06/2000

BELUSA, Miroslav; FEIT, Josef

Hypochromic hypersideremic anemia with hemochromatosis. Cesk. pediat. 16 no.5:442-446 My '61.

1. I detska klinika lekarske fakulty v Brne, prednosta prof. MUDr. Z. Brunecky Patologickoanatomicky ustav lekarske fakulty v Brne, prednosta prof. MUDr. J. Svejda.

> (HEMCCHROMATOSIS in inf & child) (ADIMIA HYPOCHROMIC in inf & child)

APPROVED FOR RELEASE: 06/06/2000

CECH, Miroslav; BELUSA, Miroslav

Interrelations of fetal hemoglobin and the acetylphenylhydrazine test in infants. Cesk pediat 17 no.2:130-135 F ¹62.

1. I detska klinika v Brne, prednosta prof. dr. Z. Brunecky.

(HEMOGLOBIN chem) (FETUS blood) (PHENYLHYDRAZINE pharmacol)

APPROVED FOR RELEASE: 06/06/2000

USSR / Human and Animal Morphology (Normal and Patho-S-4 logical. Nervous System. Abs Jour: Ref Zhur-Biol., No 17, 1958, 79072. Author : Nikolau, Sh. G., Belush, Laurian. : On a Special Type of Terminal Nerve Bodies Found : Not given. Inst in the Thicker Skin Muscle in Rats. Title Orig Pub: Zh. med. nauk. Akad. RNR, 1956, 1, No 2, 97-103. Abstract: By the method of impregnation according to de Castro, encapsulated nerve endings - nerve cor-puscles (NC) of an egglike-form are found in the muscle layer of the hyperdermis of rats. The long axis of the NC is often declined and forms an obtuse angle with the surface of the muscular layer. Large diameter of NC is 100-300 H; small 50-100 H. Usually, NC are completely immersed in the thickness of the muscle Card 1/2 20

APPROVED FOR RELEASE: 06/06/2000

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520015-2

BELUSH, L. RUMANIA/Pharmacology, Toxicology. Analeptics	003
Abs Jour : Ref Zhur - Biol., No 4, 1958, No 17;	64
Author : Blumenthal M., Fellner M., Belush L. Inst : Not Given	
Title : The Treatment with Sodium Bromide an matosis, Accompanied by Itching	d Caffeine of Some Der-
Orig Pub : Probl.terap., 1957, 6, 67-76	
Abstract : Thirty two patients, afflicted with eczema), accompanied by itching, rec subcutaneously caffeine in 0.02-0.03 of the treatment there was a decreas patients. The treatment had little When 39 patients received only NaBr	eived daily for 2-3 weeks g doses. As a result e in itching in the effect on skin injuries. (1-2 intravenous injec-
tions of 10 ml of a 10% solution dai tients were completely cured, in add itching. 61 patients obtained the b and NaBr were administered simultane were not cured.	ition to a decrease in est effect when caffeine
Card : 1/1	
	<u>.</u>

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520015-2

UTHOR: Teode (Engineer): Ma	rescu. ITeodores			in a constant of going and a prosperior a	
	covel, M Makovey,	cu, I. (Engineer); B M. (Engineer)	olusica, IBolu	ushika, I. 61)
DRG: none				B	
TITLE: Autom	tic tuning of the re	sonant system of a l	J-120 ovelotron	-19	
IOURCE: Autor	atica si electronic	4 v. 9, no. 1, 1965	. 28-31		
NOPIC TAGS: T	Ibration, cyclotron,	automatic control,	automatic contr	ol system	
the automatic tested both or	authors report on t tuning for the reson a model similating lize the frequency of [JPRS]	ant system of a U-12 the cyclotron and in	20 cyclotron. The actual cycl	he device was lotron, and was	
UB CGT 13,	20 / SUBM DATE:	none / ORIG REF:	002 / SOV REF	. 001	
				민준이 김 승규는 감독을 통했다.	
					•



Characteristics of the natural emulsifying film in cream. Isv.vys. ucheb.sav.pishch.tekh. no.4:57-63 '58. (MIRA 11:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslodel'noy i syrodel'noy promyshlennosti, Fiziko-khimicheskaya laboratoriya. (Cream)

APPROVED FOR RELEASE: 06/06/2000

BELUSOV, A.S., kand, med. nauk (Moskva)

Secretory and evacuatory function of the stomach in healthy subjects on a regular diet. Klin.med. 37 no.10:73-79 0 '59. (MIRA 13:2)

1. Is 2-y kafedry terapii (saveduyushchiy - prof. B.Ye. Votchal) TSentral'nogo instituta usovershenstvovaniya vrachey. (STOMACH physiol.)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520015-2"

0

BELUSOVA, Z. S.

Dissertation defended for the degree of Candidate of Sciences in the Institute of History (1962)

"Franco-Soviet Relations and the Problem of French Security (From the Franco-Soviet Pact on Mutual Assistance of 1935 in Munich)."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

APPROVED FOR RELEASE: 06/06/2000



CIA-RDP86-00513R000204520015-2



"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520015-2



"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520015-2



CIA-RDP86-00513R000204520015-2

EELUSZKY, Pal, dr.

"Power demand and its long-range planning" by Gyorgy Cuker, Marton Sagi. Reviewed by Pal Beluszky. Foldr kozl 12 no.4:359-360 '64.

"Guide to Hungarian and international literature on scientific work" by Janos Szentmihalyi, Miklos Vertesy. Reviewed by Pal Beluszky. Ibid.: 360-361

APPROVED FOR RELEASE: 06/06/2000

BELUTSXIY, V. P.

1.5

BELUTSKIY, V. P. "On the diagnosis of blood flow from the ovaries", Shornik natch. trudov Khabar. voyen. gospitalya, III, Khabarovsk, 1948, p. 136-41.

SO: U-4393, 19 August 53, (Letopis 'Zhurnal 'nykh Statey', No.22, 1949).

APPROVED FOR RELEASE: 06/06/2000

BEDRINTSEV, K.N., kand.ekonom.nauk; KORZHENEVSKIY, N.L., doktor geograf. nauk; KOROVIN, Ye.P., doktor biolog.nauk; SHUVALOV, S.A., kand. geologo-mineral.nauk; YAKHONTOV, V.V., prof.; BELUZHNV; A.G.; GERKUZEN, S.Kh.; PAL'MIN,B.A.; KLEYNENBERG, G.Ye.; BARANOVSKIY, M.D.; DOROSHEV, N.T., mladshiy nauchnyy sotrudnik; SCHASTNEV, N.V.; TSAPENKO, N.G.; BABAKHODZHAYEV, A.Kh., red.; SUKHANOV, P.P., tekhn.red. (MIRA 13:7) [Uzbekistan; economic-geographical features] Uzbekistan; ekonomiko-

geograficheskaia kharakteristika. Tashkent, 1950. 302 p.

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut ekonomiki. 2. Chlen-korrespondent AN Uzbekskoy SSR (for Korshenevskiy). 3. Deystvitel'nyy chlen AN Uzbekskoy SSR (for Korovin). 4. Institut ekonomiki AN Uzbekskoy SSR (for Doroshev).

(Uzbekistan--Economic conditions)

APPROVED FOR RELEASE: 06/06/2000

L 23500-66 EWP(j)/EWT(m)/T RM/WW	
ACC NR. AP6010204 (A) SOURCE CODE: UR/0201/66/000/001/0090/0094	
AUTHOR: Bely, U. A.; Sawkin, V. G.	
ODC. Division of the Machanias of Palamana AN PalSSP (Otdal makhaniki	
polimerov AN BSSR)	
TITLE: The effect of technological treatment parameters on the performance characteristics of polymers	
SOURCE: AN BSSR. Vestsi. Seryya fizika-tekhnichnykh navuk, no. 1, 1966,	
90-94	
TOPIC TAGS: polymer, polycaprolactam, heat treatment, polymer structure	
이 방법은 지수는 것은 것은 물질을 위해 경험되었는 것이라고 같은 것이라. 그는 것은 것은 물을	
ABSTRACT: The authors investigated the effect of temperature and pressure on	
the supramolecular structure and some physical and <u>mechanical properties</u> of polycaprolactam/S Changes in pressure from 200 to 1000 kg/cm ² did not affect	
the supramolecular structure or the mechanical or physical properties of the	
polymer. Raising the temperature from 220 to 300 C favors the formation of	C .
larger supramolecular structures, while the spherulites become less uniform	5
with more frequently encountered defects. This sharply decreases the strength (2
Card 1/2	
สาระสารอากแล่น และสมกับสารสารสาราวารสารสารสารสารสารสารสารสารสารสาราวาร (การการสาราวารสารสารสารสารสารสารสารสารส	



"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520015-2

ACC NR: AP6010496 (A) SOURCE CODE: UR/0201/65/000/003/0078/0081	•
AUTHOR: Bely, U.A.; Sawkin, V.H.	
ORG: none	
TITLE: Physicomechanical properties of polycaprolactam as affected by vacuum treatment of the melt	
SOURCE: AN BSSR. Vestsi. Seryya fizika-tekhnichnykh navuk, no. 3, 1965, 78-81	
TOPIC TAGS: polyamide, nylon, solid mechanical property, vacuum tech- nology, polycaprolactam, capron	
ABSTRACT: A series of designs for a vacuum-melting cylinder has been worked out at the Department of Polymer Mechanics, Academy of Sciences BSSR. The effect of vacuum on the physicomechanical properties of poly- caprolactam products is studied. The installation used in the tests consists of the LPG-62 press, with a special attachment for producing vacuum in the melting cylinder. Technical data are given for the mate- rials and equipment used. Emphasis is placed on the negative effect of moisture and high temperatures in the initial material on the physico- mechanical properties of the finished product. On the other hand, vacuum treatment significantly increases (10-20%) the strength of the	
Card 1/2	



"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520015-2

L O L O L O L O L O L O L O L O L O L O	•
ACC NR: AP6024007 SOURCE CODE: UR/0201/66/000/002/0111/0	118
AUTHOR: Bely, U. A.; KUPCHYNAW, B.I.	
ORG: Division of Polymer Mechanics, AN BSSR (Otdel mekhaniki polimerov AN BSSR)	J I
TITLE: Investigation of the influence of the temperature on the operating ability metal-polymer sliding friction bearings	of
SOURCE: AN ESSR. Vestsi. Seryya fizika-tekhnichnykh navuk, no. 2, 1966, 111-118	
TOPIC TAGS: antifriction bearing, bearing material, polyamide, friction coefficient temperature dependence/ <u>MAST-1</u> friction machine, Belarus' tractor	at,
ABSTRACT: The authors' investigated the influence of the temperature on the friction coefficient of polyamides subjected to artificial heating. The tests were made on the MAST-1 friction machine. Mathematical reduction of the experimental data yield an empirical plot of the friction coefficient of the polyamides vagainst the temperature. The functional temperature dependence of the friction coefficient shows that	ded a-
even relatively slight increase of the temperature in the friction zone causes an appreciable increase in the friction coefficient. An analysis of the influence of the temperature in the friction zone on the friction coefficient of polyamides has led to a redesigned sliding friction bearing with a rotating polyamide bushing, having an increased load ability, improved heat transfer, and greater wear resistan (Fig. 1). The bearings are to be used in the "Belarus'" tractor and other agri- cultural machinery. Orig. art. has: 4 figures, 3 formulas, and 1 table.	-
Cord 1/2	

CIA-RDP86-00513R000204520015-2






CIA-RDP86-00513R000204520015-2

S/193/60/000/012/014/018 A004/A001

AUTHOR: <u>Belyachkov</u>, A. I.

TITLE: Oxide Chrome-Plating

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No. 12, pp.57-58

TEXT: The author reports on investigations and tests carried out by a team of engineers of a mechanical engineering plant in the field of oxide chrome-plating. The immediate deposition of oxide-chromium on steel not only resulted in positive results as to corrosion resistance, but cut down the costs and increased the productivity of the process. Compared to a cadmium layer of $20-30\mu$, the components are now coated with oxide-chromium of 5-7 μ thickness, while the duration of the process was halved. The hardness of the oxide-chromium plating amounts to $60 - 64 R_{c}$ on a steel basis and 57 R_{c} on aluminum alloys. Oxide-chromium can be successfully deposited on flat components, while internal adjacent surfaces and deep cavities cannot be coated. For the coating of complex-profiled parts it is necessary to introduce additional anodes. For complex parts where additional anodes can only be used with difficulty, combined coatings are recommended, which consist of a cadmium layer 10-15 μ thick and a 5 - 7 μ oxide-chromium coat. To

Card 1/2

APPROVED FOR RELEASE: 06/06/2000

Oxide Chrome-Plating

S/193/60/000/012/014/018 A004/A001

increase the corrosion resistance of the oxide-chromium layer it is necessary to apply a fine layer of gun oil or commercial vaseline. The electrolyte for oxidechromium plating is composed of 250 - 300 g/liter chromic anhydride and 1 - 3 g/ liter potassium ferrocyanide. Plating is effected at 15 - 25°C at a current density of 20 - 80 amp/dm². The oxide-chromium deposits are of dark-gray or black color and possess a low porosity. The bath tubs for oxide-chromium plating are made of sheet steel and lined with vinylplastics. An electrolyte temperature exceeding 25°C has a negative effect on the plating process, the oxide-chromium deposit changes in color, the density of the deposit decreases and the thickness of the plating is reduced. The optimum plating temperature is 15 - 20°C, and to maintain this temperature the electrolyte should be cooled during the plating process by a water jacket or a coil pipe.

Card 2/2

APPROVED FOR RELEASE: 06/06/2000

S/193/61/000/001/002/008

A005/A001

88666

18.7400A

AUTHOR: Belyachkov, A.I.

TITLE:

م الله الله تج

Hard Anodizing of Aluminum and Its Alloys

PERIODICAL:

Byul. Tekhn.-ekon. inform., 1961, No. 1, pp. 20 - 21

TEXT: The hard anodizing was introduced into mechanical engineering for producing friction-resistant components of anodized aluminum or its alloys instead of steel or, especially, stainless steel, which decreased the weight of components by about 50%. Moreover, the manufacture of components such as valves, cores, clutches, cylinders, shafts etc. made of aluminum alloys decreased the production time and made it possible to replace bronze, brass, and copper. The hard anodizing is conducted in a sulfuric acid electrolyte cooled down to a temperature below 0° C; a dense oxide coating of aluminum oxide forms on the component surface, having 90 micron in thickness and hardness of 300-380 kg/mm². The heat arising in the metal - electrolyte interface is withdrawn by mixing the electrolyte with X cold air of $+2 - -10^{\circ}$ C supplied into the zone of the components to be anodized; the cooling of the hard anodizing bath is performed by conditioning compressors. The alloys β -95 (V-95), AK-6 (AK-6), AMT(AMG), AK-4-1 (AK-4-1), A λ , -9 (AL-9),

Card 1/3

APPROVED FOR RELEASE: 06/06/2000

S/193/61/000/001/002/008

A005/A001

88666

Hard Anodizing of Aluminum and Its Alloys

(AN(SAP), and 耳-16 (D-16) (plated), are subjected to hard enclizing; the latter alloy in non-plated state poorly undergoes the anodizing. The choice of the anodizing conditions for each lot of components and the maximum elimination of heat from the metal - oxide coating interface are required, dependent on the content percentage of admixtures, especially copper; burn may occur instantly, if a slight overheating arises at any point. The thickness of the anodic coating, depends on the anodizing duration as well as on the nature of the alloy subjected to hard anodizing; the best anodic coating of the greatest thickness was cbtained with the alloy V-95 being the most suited alloy for friction resistant components. The outfit and reliable contacts are of importance in hard anodizing; a poor contact leads to local overheating and burn at the contact point. The hard anodizing tank is manufactured of steel sheet lined at its inner side by acidresisting substances such as vinyl plastics, diabase. A refrigerant compressor system cooles the electrolyte by a lead coil pipe mounted immediately within the tank. The hard anodizing process is power-supplied from a 110 v generator. The preparations of the components to both hard and ordinary anodizing in sulfuric acid are similar. After being hard anodized, the components are washed in cold water and dried. The sulfuric acid concentration for hard anodizing is 200-300 g/l; the cathodes are of lead. Different conditions are needed for different

Card 2/3

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204520015-2

... . 88666 8/193/61/000/001/002/008 A005/A001 Hard Anodizing of Aluminum and Its Alloys alloys; the tanks must be charged with components of the same alloy. The temperature of the stirring air must never be higher than that of the electrolyte. Hard anodizing protects successfully the metals from corrosion. Card 3/3

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204520015-2

14(5)

SOV/92-58-8-22/36

AUTHOR: Belyachkov, A.P., Engineer

TITLE: Treatment of Spindle Oil in a Combined Mixer (Ochistka veretennogo masla v kombinirovannoy meshalke)

PERIODICAL: Neftyanik, 1958, Nr 8, pp 25-26 (USSR)

ABSTRACT: The author states that in 1957 a group of engineers and technicians of the Groznyy refinery introduced the treatment of the 3V spindle oil in one combined mixer of a sulfuric acid treating plant. Before their proposal was put into effect, the treatment of spindle oil was performed in two units in accordance with the flow chart shown in Fig. 1. In 1957 the sulfuric acid treating plant conducted tests using only one mixer. For this purpose the mixer was equipped with an additional steam distributor. The author describes how the process is carried out and shows it in a flow chart of Fig. 2. The process carried out in one combined mixer takes 18 hours and permits the refinery to realize a saving of about 300,000 rubles per year.

ASSOCIATION: Groznenskiy neftepererabatyvayushchiy zavod (The Groznyy Refinery) Card 1/1

APPROVED FOR RELEASE: 06/06/2000



BELYAEV, A.D., MALOGOLOVETS, V.G.

Effective cross section of electron capture by negative iron ions in germanium. Fiz. tver. tela 5 no.10.3043-3046 0 '63. (MIRA 16:11)

1. Institut poluprovodnikov, AN UkrSSR, Kiyev.

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204520015-2

ZELIKMAN, Abram Naumovich; KRYN, Ol'ga Yefirovns; SANSONOV, Grigoriy Valentinovich; BELYAEVSKAYA, LeV., red. [Metallurgy of rare metals] Metallurgiia redkikh me-tallov. Izd.2., perer. i dop. Moskva, Izd-vo "Metal-lurgiia," 1964. 568 p. (MIRA 18:1)

APPROVED FOR RELEASE: 06/06/2000

ACCESSION NRI	AP5019094	•//ENP(L)/SNP(L)/	5#P(1)	r.4 UR/0286/65/0	00/012	/0312	10179	
AUTHORS : Abr	amov; A. K.	Belyagin, V. S.	м М		×2-		36	
TITLE: An au	tomatic brak	e of a normally :	Locked type	. Class 47,	No. 1	72163	B	
SOURCE: Byul	leten' izobr	eteniy i tovarnyl	ch znakov,	no. 12, 1965	, 112		۰.	
		rgineering, arres				, ú		0.
the brake dru crease the brake dru the brake dru fixed pins wh:	The brake c m. To incre aking force, contains a ich enter th	rtificate present ontains two semic ase the ease of r and to simplify protrusion at it e recesses formed	lutches, c egulating the constr s center, in the ac	the braking n uction, the a while its dis	also co coment cemiclu k carr	nstit, to i itch w ries r	utes i n	 •
ASSUCIATION	Spetsial no	ye konstruktorsko eau of Electrical	ye byuro e . Machina C	lektromashing	stroye H	eniya		
ASSUCIATION	Spetsial no truction Bur	ye konstruktorsko eau of Electrical ENCL:	. Machina C	lektromashino onstruction)	μ.	oniya CODE:	IE	
(Special Const	Spetsial no truction Bur 5Dec63	eau or Electrical	00	lektromashind onstruction)	μ.		B	
ASSOCIATION: (Special Const SUBMITTED: 1(Spetsial no truction Bur 5Dec63	eau of Electrical ENCL:	00	lektromashind	μ.		IE	



V,

١



APPROVED FOR RELEASE: 06/06/2000

33. A. S. 640

	a) 65				•
<u>, 1235-66</u> EWT(m)/EPA(w)-2/EWA(m)-2 IJP(CCESSION NR: AT5007977		/64/000/000/1056,	/1060 47		
가는 것 같아요. 전문에 있는 것 것 같아요. 가지 않는 것 같아. 한 것은 것은 것이다. 같이 가지 않는 것은 것은 것은 것 같아. 것 같아. 것 같아. 가지 않는 것 같아. 것 같아.		د اور در در این از می از در این از می واد م مراجعه می از می واد در این از می واد می واد می واد می واد می	43		
UTHOR: Belovintsev, K. A.; Belyak, A. Ya.;	Vorontsov, S.	B.; Cherenkov, I	<u>P. A. 2</u> 7		
ITLE: Strong-current microtron-injector					
OURCE: International Conference on High Er		ma Buban 106	a		• •
rudy. Moscow, Atomizdat, 1964, 1056-1060	IELRY ACCELETAL				
OPIC TAGS: low energy accelerator, magnet	ron, electron be				
BSTRACT: By analyzing the characteristics	of various low-	energy accelerat	tors		
Van-de-Graaf generator, cascade generator,	pulse transform	mer, microtron,	linear		
ccelerator, etc.) from the viewpoint of the ynchrotron, the authors found the application	ion of the micro	tron for this p	urpose		
ery promising. The determining motives of	their selection	were the simpl	icity of	<u>.</u>	
esign and construction, high monoenergetic eters, ease of output of a large part of th	character, good	l geometric beam	para-	-	
ess of this accelerator. In order to expen	rimentally verif	fy the theoretica	al as-		
umptions, and also to study new possibiliti	les, mainly cond	erned with the	enhance-		
ent of the intensity, a 7-Mev microtron was er 1961) in the Photomeson Processes Labora	atory, Physics I	Institute im. P.	N.		
ard 1/3					
		ىيەر ئەرىپەت بىلىيە يېكىلىيە بىلەت سىيەر. ئەلەر ئەرىپەت بىلەت ئەرىپەت بىلەت بىلەت	مر المحمد محمد مند مند		- \

CIA-RDP86-00513R000204520015-2

L 4235-66 ACCESSION NR: AT5007977 \mathbf{D} Lebedev, Academy of Sciences SSSR. The present report discusses the principal characteristics of the microtron. This accelerator was described in detail in another work (Belovintsev, K. A., Belyak, A. Ya., Gromov, A. M., Moroz, Ye. M., Cherenkov, P. A. Atomnaya energiya 14, 359 (1963)). The magnet of the microtron (total weight of the iron and windings -- 2 tons) ensures the creation of homogeneous (not worse than 0.3%) field in the circular region 50 cm in diameter for a gap of 12 cm between the pole terminals 60 cm in diameter. The maximum value of the homogeneous field in the gap is 4000 cersteds. The magnet's power supply is stabilized with an accuracy of 0.05%, and the power consumed in the operational state (around 1000 cersteds) amounts to 450 watts. The magnet poles are the covering of the vacuum chamber, realized in the form of a brass ring with nine soldered outlet pipes. The vacuum exhaust system consists of a mechanical fore-vacuum and para-oil pumps. A vacuum of 10⁻⁶ mm of mercury in the chamber's working volume is reached in 1.3 hours after it is attached. The microtron high-frequency system includes the following elements: (a) magnetron generator of 10 cm range operating in the pulse state at a frequency of repetition 50 or 100 hertz and pulse duration of 3 microseconds; (b) waveguide track with cross-section 72 × 44 mm operating in the fundamental wave mode H01; (c) plane cylindrical resonator in which oscillations of Card 2/3

APPROVED FOR RELEASE: 06/06/2000

L 4235-66 ACCESSION NR: AT5007977		4
368 1961)). Works on the st crotron as a strong-current study of the possibility of	Kapitsa, S. P.; Bykov, V. P. tudy and improvement of the c injector are continuing. Es the microtron as an injector v, K. A.; Denisov, F. P. Atom	characteristics of the mi- specially interesting is the r of positrons for various maya energiya (in print)).
"In conclusion the authors t	thank their associates at the	e Photomeson Laboratory,
"In conclusion the authors of A. M. Gromov, A. V. Borisov Individual experiments and ASSOCIATION: Fizicheskiy in	thank their associates at the , and V. S. Malofeyev, for th developments." Orig. art. ha natitut imeni P. N. Lebedeva	meir participation in the same of figures.
"In conclusion the authors (A. M. Gromov, A. Y. Borisov Individual experiments and (, and V. S. Malofeyev, for the developments." Orig. art. ha	meir participation in the same of figures.
"In conclusion the authors of A. M. Gromov, A. V. Borisov Individual experiments and construction ASSOCIATION: Fizicheskiy in AN SSSR)	, and V. S. Malofeyev, for the developments." Orig. art. has natitut imeni P. N. Lebedeva	neir participation in the as: 5 figures. AN SSSR (<u>Physics Institute</u> ,

0

CIA-RDP86-00513R000204520015-2

S/089/63/014/004/003/019 A066/A126

AUTHORS: Belovintsev, K.A., Belyak, A.Ya., Gromov, A.M., Moroz, Ye.M., Cherenkov, P.A.

TITLE: A 6.5 Mey microtron for electron injection into a synchrotron

PERIODICAL: Atomnaya energiya, v. 14, no. 4, 1963, 359 - 363

TEXT: It is first pointed out that the relatively high intensity of the electron beam attained in conventional microtrons, the simple design of the device, the escape of a relatively large amount of electrons from the accelerator, the great similarity of the electron energies, the small divergence angle of the electrons, and other facts indicate that the microtron may also serve as a synchrotron injector. These assumptions were checked by the authors on the 280 Mev synchrotron of the Fizicheskiy institut im. P.N. Lebedeva AN SSSR (Institute of Physics imeni P.N. Lebedev, AS USSR) with the aid of their 6.5 Mev microtron. The number of electrons retained during acceleration when a magnetron is used as a synchrotron injector is estimated at about 2.5 \cdot 10¹⁰. It is thus proved that modern accelerators of this type are very efficient already now, and further de-

Card 1/2

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204520015-2



APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204520015-2

EWT (m)/BDS/ES(w)=2--AFFTC/ASD/ESD=3/SSD--Pab-4--DM L 11297-63 s/0089/63/015/001/0062/0062 ACCESSION NRL AP3003978 AUTHOR: Belovintsev, K. A.; Belyak, A. Ya.; Gridasov, V. I.; Cherenkov, TITLE: On new possibilities of increasing the efficiency of a microtron SOURCE: Atomnaya energiya, v. 15, no. 1, 1963, 62 TOPIC TAGS: microtron, ferrite isolator, magnetron, automatic bies ABSTRACT: A ferrite isolator, serving as a matching and decoupling element between a magnetron oscillator and an accelerating resonator was substituted for the conventional water-load system and the phase shifter in a microtron. As a result of this improvement, the power loss in the microtron waveguide was reduced, microtron efficiency was increased by a factor of approximately two and the stability of the h-f channel was increased markedly due to decoupling between the magnetron oscillator and the load. Through reduction of waveguide length and the number of joints in the waveguide it was possible to make the system hermetic, thus increasing considerably its electric strength. Since the ferrite isolator functions simultaneously as a matching element, attenuator, and phase shifter, the adjustment procedure and control of the microtron were considerably simplified. Card 1/2

APPROVED FOR RELEASE: 06/06/2000

* 11000 (7	<u> </u>		
L 11297-63 ACCESSION NR: AP3003978			
A further increase in efficiency which is the ratio of the number injected electrons. The k can be microtron injected cathode. Such ing the internal resistance of t tron cathode and the ground. It function of the positive bias in linearity coefficient depends on aperture and on the location of k by 10% at a positive bias of a current of accelerated electrons at an energy of 6.5 Mev. Orig.	of electrons in the beem to the be increased by applying a posit both adjustment of the bias is e the nigh-voltage triode located t was shown in experiments, that in the first approximation. The in the dimensions of the resonat the cathode. Thus, it was poss approximately 2-3 kv, and to in in the microtron up to approxi-	e number of ive bias to the ffected by chang- between the micro- k is a linear value of the or injector ible to increase crease the pulsed	
ASSOCIATION: Fizicheskiy instit AN SSSR)	out im. P. N. Lebedeva, AN SSSR	(Physics Institute,	
SUBMITTED: 250ct62	DATE ACQ: 08Aug63	ENCL: 00	
SUB CODE: SD CCM de Code 2/2	No ref Sov: 002	OTHER: 000	

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520015-2"

....

	<u>I 46158-65</u> ENT(m)/EPA(w)-2/ENA(m)-2 Pr-7/Pab-10 IJP(c) OS .	
	ACCESSION NR: /AT5007923 S/0000/64/000/000/0355/0357	
	AUTHOR: Ado, Yu. H.; Belovintsev, K. A.; Belyak, A. Ya.; Bessonov, Ye. G.:	
	Dem'yanovskiy, O. B.; Skorik, V. A.; Cherenkov, P. A.; Shirchenko, V. S. 50	
	TITLE: Storage of particles in a synchrotron 17	
	SOURCE: International Conference on High Energy Accelerators. Dubna, 1963. Trudy. Moscow, Atomizdat, 1964, 355-357	
	TOPIC TAGS: high energy accelerator, charged particle beam, particle physics, synchrotron	
	ABSTRACT: Synchrotron-type accelerators of several 100 Mev and higher can be employed for particle storage [Yu. M. Ado, "Atomnaya Energiya, 12, 54 (1962)]. In the case of simultaneous storage of electrons and positrons in an accelerator, one can obtain colliding electron-positron beams. In order for a synchrotron to oper- ate in the storage state, the constant component of the driving magnetic field must be larger than the amplitude of the variable component. In particular, if the vari- able component is a sinusoidal function of time, the driving magnetic field <i>B</i> must have a specified shape. In this case, the accelerating hf potential is step-sheped,	
	Card 1/4	
9750		

CIA-RDP86-00513R000204520015-2

O

L 46158-65 ACCESSION NR: AT5007923

Card 2/4

i.e. remains switched on continuously in contrast to the synchrotron's operation in the usual state. The injection of particles is effected at moments of time t_1 , t_2 , t_3, \ldots , which correspond to intersections of the ascending curve H-versus-t with the constant ordinate H_1 . The particles captured in the synchrotron state of the storage device, which are accelerated during the rising portion of the magnetic fi :1d H and slowed down when the magnetic field is decreasing, remain in the accelerator chamber for a period that is determined mainly by the scattering processes and by the bremsstrahlung on the atoms of the residual gas. During each period of the driving magnetic field H close to maximum H there exists considerable radiation camping of the amplitudes of betatron and synchrotron oscillations. As a result, the phase volume occupied by the particles decreases. This permits the onset of amplitude modulation of the specified hf-potential without loss of the particles captured earlier. In this case, the injection of particles will proceed into the phase space between the separatrices which are defined by the amplitudes of hfpotential U (maximum step value) and $U - \Delta U$ (modulation decrement due to H being less than H_1 for the brief periods just before $t_1, t_2, t_3, ...$ The admissible depth of modulation AH is larger the larger the magnitude of radiation damping of the oscillations. The effectiveness of the injection into the synchrotron state of storage during onset of amplitude modulation of the hf-potential is ten times the effectiveness of injection directly into the steady-state separatrix. In the case

CIA-RDP86-00513R000204520015-2

 \mathcal{O}

L 46158-65 ACCESSION NR: AT5007923

of particle storage in a synchrotron, injection is effected into the variable magnetic field during the low energy of the injected particles which is typical for the given accelerator. Consequently the problem of particle injection is essentially simplified in comparison with injection into storage rings. Moreover, the small injection energy simplifies the problem of obtaining positrons. These properties permit attainment of a comparativaly high rate of storage and thus a lowering of the requirements made on the degree of vacuum. To varify the possibility in principle of realizing the method of particle storage in a synchrotron, experiments were carried out on a 280-Mev synchrotron under specific conditions of particle energy (170 Nev for maximum H and 7 Nev for minimum H), amplitude U, of hf-potential (1.8 kv), modulation depth AU (0.36 kv), rate of growth of driving magnetic field at moment of injection (1.5.10⁵ oersteds/sec), pressure of residual gas in vacuum chamber $(5 \cdot 10^{-6} \text{ mm/Hg})$. The source of electrons is an 8-Mev microtron [K. A. Belovintsev, A. Ya. Belyak, A. N. Gromov, Ye. M. Moroz, P. A. Cherenkov, "Atomnaya Energiya, 14, 359 (1963)]. Finally as shown by tests conducted on electron storage in a synchrotron, it is possible to carry out simultaneous storage of both electrons and positrons in quantitles sufficient for setting up experiments on colliding beams if the pressure in the vacuum chamber is lowered to 10^{-8} mm/Hg and the conditions for particle capture are suitably improved. Orig. art. has 4 figures.

Card 3/4

APPROVED FOR RELEASE: 06/06/2000



ACC NR: AT6031762 SOURCE CODE: UR/3092/66/000/004/02	123/0135
AUTHOR: Belyak, A. Ya.; Gusev, O. A.; Nechayev, A. G.; Rezchikova, N. S.	43
ORG: none	B+
TITLE: <u>Controlling the magnetic field derivative</u> during injection into a sync	hrotron
SOURCE: Noscow. Nauchno-issledovatel'skiy institut elektrofizicheskoy apparat Elektrofizicheskaya apparatura, no. 4, 1966, 123-135	wry.
TOPIC TAGS: synchrotron, magnetic field intensity, magnetic field stabilization	on
ABSTRACT: The physical basis for controlling the magnetic field derivative, the for controlling this derivative, the variation in this derivative as a function cuit parameters, the selection of circuit parameters, and the methods of stabilithe derivative are established and verified experimentally by means of a model model consisted of a charging network, a discharging network and a system for sing the voltage of the storage capacitor. The model was tested both in the state and transient state. The results of the experiment showed that in order to obtain storage capacitor must be charged to a voltage of 2500 v while the voltage of the system of the system of the system of the system obtained by varying the damping resistance in the range from 40 to 400 ohms when	he method h of cir- lizing . The stabiliz- ationary cain a ., the he
Card 1/2	
о Энэн на сама сама сама сама сама сама сама	0

igat	ion sho	wed that	t the eau	on, a steady active duri ations deriv g. art. has	ing the i	oth perio	d. The r		1	
		•• ••	• •	none/				i Ref: 004		
									•	
•								•		
•	•		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1						•	
								•		
•	•							•	•	
	•	•				•		•		
	•								•	
	•				2	•	· · ·			

CIA-RDP86-00513R000204520015-2



BELYAK, B. I.

BELYAK, B. I. -- "The Use of Waste Waters and Their Sediment for Fruit Crops under Conditions of the Left-Bank Forest-Steppe Region of the Ukrainian SSR." Min Higher Education Ukrainian SSR. Khar'kov Order of Labor Red Banner Agricultural Inst imeni V. V. Dokuchayev. Khar'kov, 1955. (Dissertation for the Degree of Candidate in Agricultural Sciences).

So.: Knizhnaya Letopis', No. 2, 1956.

APPROVED FOR RELEASE: 06/06/2000

		М	
Country : Category:	USSR Cultivated Plants. Potatoes. Vegetables. Cucurbits.		
Abs Jour:	RZhBiol., No 22, 1958, No 100301		
Author : Inst :	Belyak, B.I. Ukrainian Sci. Res. Inst. for Vegetable and		
	Potato Cultivation. The Influence of Run-Off Waters on the Yield of Early Cabbage on Irrigated Fields.		
Orig Pub:	Nauchn. tr. Ukr. ni. in-t ovoshchevodstva i kartofelya, 1957, 4, 17-26		
Abstract:	In 1950-1952, in the experiments at "Polya orosheniya" Sovkhoz in Khar'kovskaya Oblast'		
	on heavy and medium weakly-saline chernozems on plots of _J2.6 square meters with four	· ·	
Cerd	1/3		
••••••	M~59		
		•	