LACHOWICZ, Tadeusz M.; MULCYZYK, Marian; ROWINSKI, Stefan

Further in vitro studies on the mechanism of selection among serological Shigella flexneri types. Arch.immun.ter.dosw. 9 no.1:69-76 '61.

l. Department of Bacteriology, Department of Microbial Genetics, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw. (SHIGELLA)

ROWINSKI, Wojciech

Comparative evaluation of various vascular clamps. Pol. przegl. chir. 37 no.6:585-591 Je 165.

1. Z Zakladu Chirurgii Doswiacczalnej Polskiej Akademii Nauk (Kierownik: prof. dr. J. Nielubowicz).

ROWINSKI, Wojciech; MICHALSKI, Andrzej; LUKASIEWICZ, Hanna; OLSZEWSKI, Waldemar; NIELUBOWICZ, Jan

Studies on the pathogenesis of acute pancreatic necrosis. Pt.1. Pol. przegl. chir. 37 no.5:49C-496 My 165.

1. Z Zakladu Chirurgii Doswiadczalnej Polskej Akademii Nauk (Kierownik: prof. dr. J. Nielubowicz).

MICHAISKI, Andrzej; OISZEWSKI, Waldemar; ROWINSKI, Wojciech

Method for the production of chronic external pancreatic
fistula in dogs. Pol. przegl. chir. 37 no.5:517-519 My 165.

1. Z Zakladu Chirurgii Doswiadczalnej Polskej Akademii Nauk
(Kierownik: prof. dr. J. Niebulowicz).

OLSZEWSKI, Waldemar; SZYFELBEJN, Stanislaw; ROWINSKI, Wojciech; NIELUBOWICZ, Jan.

Healing of experimental sounds of the pancreas. Pol. przegl. chir. 37 no.4:322-325 Ap'65.

1. Z I Kliniki Chirurgicznej Akademii Medycznej w Warszawie (Kierownik: prof. dr. J. Nielubowicz).

NIELUBOWICZ, Jan; OLSZEWSKI, Waldemar; LUKASIEWICZ, Hanna; MICHALSKI, Andrzej; ROWINSKI, Wojciech; SZYFELBEJN, Stanislaw; WIECKOWSKA, Wanda

中国的一个人,但是他们是是一个人,他们们是是这些人的,他们是是一个人,我们们是一个人,我们是这些人的,我们是我们的一个人,我们是这些人的人,我们就是我们的一个人, 第一个人,我们就是我们的一个人,我们们是我们就是我们们是我们们就是一个人,我们们就是一个人,我们就是我们的一个人,我们就是我们们就是一个人,我们就是我们们就是我

Pathomechanism of meteorism. I. Composition of intestinal gases in paralytic ileus. Pol. przegl. chir. 36 no.5:707-715 My '64.

1. Z Zakladu Chirurgii Doswiadczalnej Polskiej Akademii Nauk (Kierownik: prof. dr J. Nielubowicz).

ROWINSKI, Wejciech; SZOSTAK, Mieczyslaw

Direct intra vitam observation of the ilegical anastomosis. Pol. tyg. lek. 19 no.51:1969-1971 21 D 164

1. Z I Kliniki Chirurgicznej Akademii Medycznej w Warszawie (Kierownik: prof. dr. med. Jan Nielubowie).

<u>، نشر و</u> أحمدي محمديا بسيرات				
	COUNTRY : CATEGORY : ABS. JOUR. :	RUMANIA Chemical Technology. Chemical Products at Their Applications. Cellulose and Its * Their Applications. 23 1959, No. 84384 RZKhim., No. 23 1959, No. 84384	nd	,
	AUTHOR INST. TITLE	Rowland, C.; Blundell, E. New Grinding Method of Paper-Moss with Convous Feeding	anti-	
	ORIG. PUB.	: Celul. si lirtie, 1959, 8, No 2, 42-45 : Presented is the comparison of paner-mas grinding methods in the washing troughs grinding methods in the Rlake-Clauson method	s in	
		grinding methods in the washing accordance with the Blake-Clauson method accordance with the Blake-Clauson method (having a double cycle) and in accordance the new grinding method equipmed with a tinuous feeding. It is indicated that the theorem is advantages of a continuous. It is method has advantages of a continuous. It is nossibility of operation with a tring a mossibility of operation with a tring a hossibility of operation with a tring a hossibility of operation.	e with con- e new assu-	
		*Derivatives, Fener.		
	CARD:	r = 146		
		and the second		

ROMLEY, R. KENT

Canada - Textile Workers

Fight of Canadian textile workers against the sweating system. Vaem. prof. dvizh. no. 17, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. UNCLASSIFIED

ROWOVACEK, J.

CZECHOSLOVAKIA/Processing of Natural Gases and Petroleum, Motor and Rockets Fuel. Lubricants.

. .

Abs Jour

Ref Zhur - Khimiya, No 19, 1958, 65586

Author

: Rowovacek, J., Gasek, J.

Inst Title A Study of the Possibility of Deodorization of Natural

Gas by Activated Carbon and Alumogel.

Orig Pub

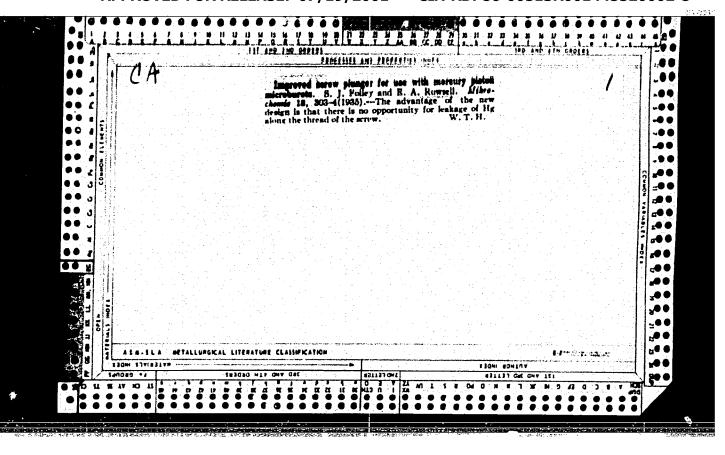
: Paliva, 1958, 38, No 2, 44-46.

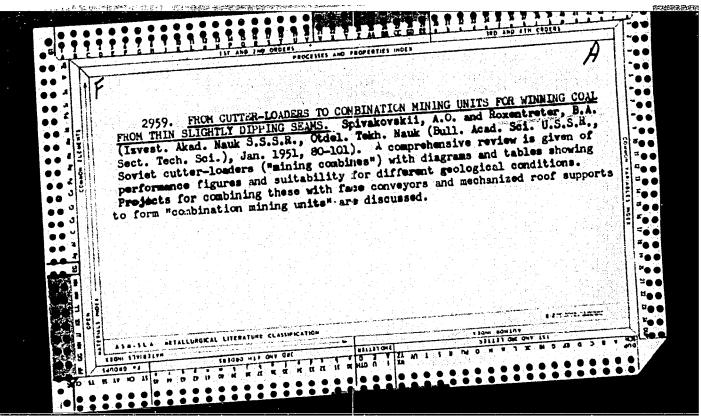
Abstract

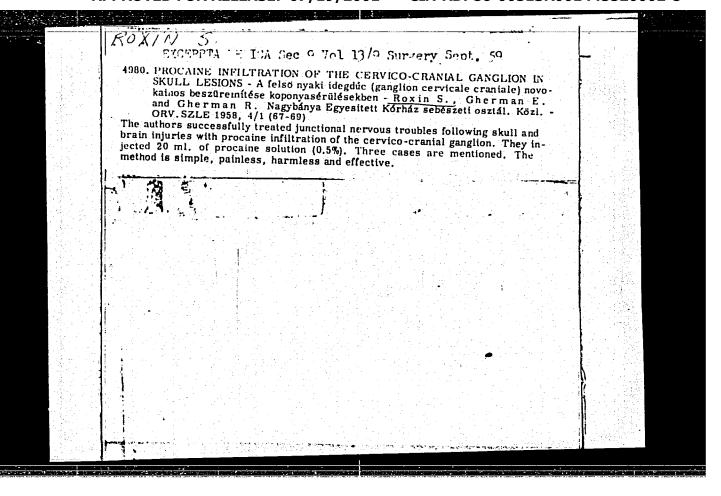
In connection with the catalytic conversion (in an Nicatalyzer) of natural gas in Bratislavia and Brno, the necessity was revealed for drawing off from this gas the methyl- or ethylmercaptan (M) used for odorization of gas in the quantity 15-20 mg/nm³, inasmuch as M can counteract the catalyzer. Isotherms of adsorption of M were found with activated carbon "Benzorbon" and by

Card 1/2

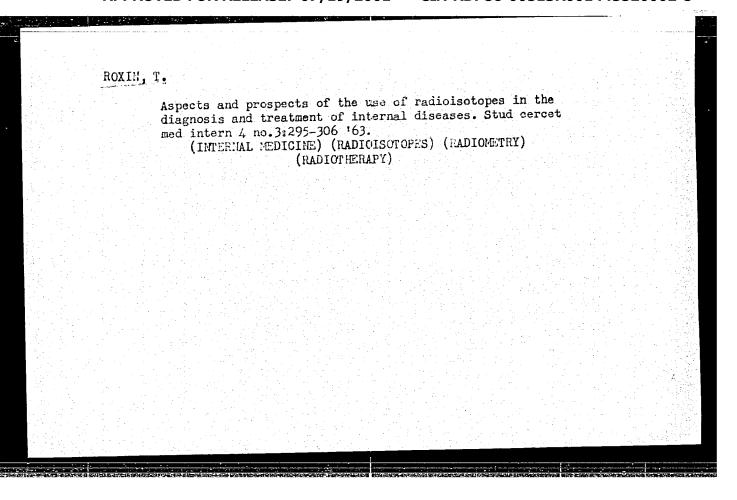
18

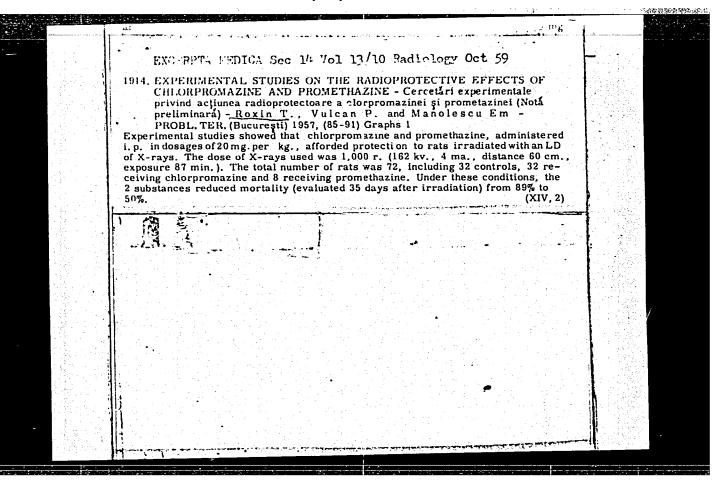






DADEO	A - POYTH T - NI	JTA, M.; VELCIU, Sanda		
PAPPO,	Contributions to	the use of sorbitol in clin	ical tests of bile	
	excretion. Stud.	cercet. med. intern. 6 no.1	197-40	
			化二氯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	





GEIB, R.; PETRESCU, M.; GROZEA, P.; SIGHETEA, Elena; OLARU, Cornelia;
ROXIN, T.

Contribution to the therapy of neoplastic reticulopathies. Stud.
cercet. med. intern. 3 no.5:623-630 '62.
(LYMPHOSARCOMA) (SARCOMA, RETICULUM CELL)
(LYMPHOMA, GIANT FOLLICULAR) (MULTIPLE MYELOMA)
(RETICULOENDOTHELIOSIS) (ANTINEOPLASTIC AGENTS)
(ADRENAL CORTEX HORMONES) (RADIOTHERAPY)

ROXIN, T.; GEIB, R.; SIGHETEA, Elena; GOCIU, Mariana; BUJAR, H.; GRANCEA, Alexandra

The place of radiotherapy in the current treatment of malignant lymphogranulomatosis. Clinical and radiological study of 105 cases. Stud. cercet. med. intern. 3 no.5:631-640 '62. (HODGKIN'S DISEASE) (RADIOTHERAPY)

HOXIN F

Millian.

ROXIN, T.

MD

Institute of Internal Medicine of the Academy of the R.F.R. and the Ministry of Health and Social Welfare (Institutul de Medicina Interna al Academici R.P.R. si M.S.P.S.), Buchcrest.

Bucharest, Vista Medicala, No 1, 1 Jan 63, pp 5-14.

"Radiations and leukaemias."

ROXLII, T.

RUMANIA

Rumania

MD

Member of the Institute for Internal Medicine of the Academy of the Mumanian People's Republic and M.S.P.S., Bucharest (Institutul de medicina interna al Academiei R.P.R. si M.S.P.S., Bucuresti)

Bucharest, Viata Medicala, No 1, Jan 63, pp 5-13.

"Radiations and Leukaemias."

GEIB, R.; SIGHETEA, Elena; PETRESCU, M.; GROZEA, P.; ROXIN, T.

Comparative study of different therapeutic methods in malignant lymphogranuloma (Hodgkin's disease). Stud. cercet. med. intern. 3 no.1:95-111 '62.

(HODGKIN'S DISEASE therapy) (ANTINEOPLASTIC AGENTS therapy)

(ADRENAL CORTEX HORMONES therapy) (RADIOTHERAPY)

RUHANIA / Pharmacology. Toxicology. Tranquillizers.

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 13795

Author : Roxin, T.; Vulcan, P.; Hanolescu, Em.

Inst

Title : Experimental Study of Defensive Action of Chlor-promazin and Prometazin Against X-Ray Injuries.

Preliminary Report.

Orig Pub : Probl. terap., 1957, 8, 85-91

Abstract : It was shown that largactil or phenergan, intro-

duced to rats in a dosage of 20 mg/kg each, intraperitoneally 10 min. before irradiation with a lethal dose of X-Rays (1000r), lower the death rate of the animals (by estimate 35 days after irradiation) from 89 to 50%. -- From the author's

resume.

Card 1/1

. To 7 matients, whose treatment by other methods had been

EXPERIMENTAL Studies of the radio-protective action of chlorpromazine and promethazine; preliminary note. Probl. ter., Aucur. 8:85-91 1957.

(RADIATION PROTECTION

by promethazine & chlorpromazine, against lethal x-irradiation, in rats)

(CHLORPROMAZINE, effects

protection against lethal doses of x-rays, in rats)

(PROMETHAZINE, effects

same)

NOXIN, T.

RUMANIA/Human and Animal Physiology - Internal Secretions.

R-8

· 14年 2016年 17日 - 元禄 (1215年至1

Abs Jour : Referat Zhur Biol., No 16, 1957, 70929

Author : Roxin, T., Ispas, I.

Inst

: ROXIII, I., Ispas, I.

Title : X-Ray Treatment of Cushing's Disease.

Orig Pub : Med., Interna, 1956, 8, No 4, 564-568

Abstract : No abstract.

Card 1/1

49 -

The value of radiotherapy in Cushing's disease. Med. int.,
Bucur. 8 no.4:564-569 Aug 56.

1. Lucrare efectuata in cadrul Institutului de endocrinologie,
Prof. I. C. Parhon.
(CUSHING SYNDROME, therapy
radiother.)
(RADIOTHERAPY, in various diseases
Cushing synd.)

PETRESCU, M., dr.; OLARU, Cornelia; ROXIN, T., dr.

Radioactive phosphorus (P³²) therapy of polycythemia. Med.int.,
Bucur. 8 no.6:341-352 Oct 56.

(POLYCYTHEMIA, therapy radiophosphorus)
(PHOSPHORUS, radioactive ther. of polycythemia)

MAISLER, A., Conf.; DULCE, M., dr.; HOXIN, T., dr.

Two cases of reticulosis with cutaneous manifestations.

Med.int., Bucur. 8 no.5:753-759 Sept 56.

(LYMPHOMA case reports
two cases with cutaneous manifest.)

(SKIN in var. dis.
lymphoma)

17(1)

RUM/2-60-3-6/36

AUTHOR:

Roxin, Tiberiu, Doctor, Chief Radiologist

TITLE:

The Atomic Disease Can Be Cured

PERIODICAL:

Stiință și Tehnică, Seria a II-a, 1960, Nr 3,

pp 8-9

ABSTRACT:

The article contains a brief description of 1) destructive effects of atomic radiation, 2) chemical means employed against irradiation diseases and 3) international research on this subject. Reference is made to the six Yugoslavs, who were cured in the "Curie" Hospital in Paris and to the Institutul de Hematologie (Hematology Institute) in Bucharest, where marrow transfusions have been successfully carried out in the treatment of different blood diseases. There are 2 photos and 4 figures.

Card 1/1

		A., inzhener. Disc-shaped working mashina no.11:19-21 (Agricultura	N 154.		plants.	Sel'khoz- (MLRA 7:11)	
		(AEL TOUT OUT A					
12.12		(1) 17 1 14 14 15 17 14 17					
	100					Commence of the second	
-					a de la company		
F							
				aga garan kabupaten kabup			
	 Figure 1 						
			Market States				
		그들은 경기를 가는 사람들이 그렇게					
				and the first of the first of			
100					1.5		
4 T 42 T							
			and the second				De la Carlo de
							医乳腺 医乳腺
			$\alpha_{ij}(s) = (s_{ij}(s), s_{ij}(s))$				
			ja sakara				
							and the property of

PCY, A. A. -- "Cacking a Rational Sechnological Process and Working Parts
for Threshing Castor Beans." Min Migher Education USSR. Moseow
Inst of the Mechanization and Electrification of Agriculture imani
V. M. Molotov. Moseow, 1975. (Dissertation for the Degrae of
Candidate in Technical Sciences)

SC: Ynighnaya Intopia', No 1, 1986

ROY,	no.8:12-13 Ac'55.	r threshing castor beans.	(WITHY Q:II)	

ROY, A.		22 no.10:50
Maghin	g machine for castor-cil plant. Nauka i zhizn'	(MIRA 9:1)
0 155.	Threshing machines) (Castor-oil plant)	
	몸이 일도 돈 살목을 잃으는 목어로는 맛입었다.	
	으로 하시하다 (1985년) 1일 등 시간	
	and the Arman and the second of the Arman Arman and the Arman Arman and the Arman Ar	

Control of the Contro	The state of the s	
	Overall mechanization of castor-oil plant picking	and threshing.
	Trakt. i sel'khozmash. no.10:25-27 0 '64.	(MIRA 17:12)
	1. Rostovskiy institut sel'skokhozyaystvennogo me	ashinostroyeniya.
	네빙 소설 마는 이번 바람이 하지만 하는 소설을 하는데 보다.	
	등장은 말이 눈으로 하시시시하면 살 먹는데 있는데 있는데 하다	
	원이는 이 노는 보고 있다. 그는 그를 그게 하는 것 같아. 이를 하게 말할	
	海海 化多性分泌 化氯化甲基酚甲基酚 医多形的 医多种 医皮肤病 医大胆	
		ing the control of the book of the book of the book of the control

Electric-pulse broaching of deep holes in heat-resistant steel lKhl8N9T. Stan.i instr. 34 no.1:32 Ja *63. (MIRA 16:2) (Electric metal cutting)

DZHABAGIN, T.K. [deceased]; ROY, D.K.; SEMENOV, P.A.

Equilibrium pressure of sulfur dioxide over water solutions.

Khim.prom. no.11:870-875 '63. (MIRA 17:4)

ROY, D.L.; MIKHALIK, Ye.

Experimental check of the equation describing the surface activity of a chemical process. Zhur. fiz. khim. 39 no.2:510-514 F '65. (MIRA 18:4)

1. Moskovskiy institut stali i splavov.

	DUTANOV		1.7	automobiles.	starshiy inzhe - Starshserzh.	no.9:36-37		
				(Ground-e	ffect machines)			
			4 1 1 4 E					
			18 1 2					
			The state					
							医克里氏管结束 美	and the first
100			Art Li					
41.55								
			1.4					
54.								
			194					
		and the second s						
	Service Control							
		Augustus (1996)						
6.00								
i di Tar			The second	The second second		San San San San		

ROY, D.K.; DZHABAGIN, T.K.; SEMENOV, P.A.

Methods of analysis in the study of the absorption kinetics of poorly soluble gases. Izv.vys.ucheb.zav.;khim. i khim.tekh. 6 no.2:333-337 '63. (MIRA 16:9)

1. Moskovskiy institut khimicheskogo mashinostroyeniya, kafedra mashiny i apparaty neorganicheskikh proizvodstv.

(Gases—Analysis) (Absorption)

DUBININ, A.A., inzhener; ROY, F.F., inzhener.

Fuel delivery and slag removal mechanization in boilers of small capacity. Teploenergetika 4 no.5:59-61 by '57. (MLRA 10:5) (Boilers)

L 38265-65 EWI(1)/EPR/EWA(m)-2/EWA(h) Ps-4/Peb NW

ACCESSION NR: AP5007450 S/02

s/0286/65/000/004/0072/0073

AUTHORS: Sterlikov, V. P.; Roy, E. V.; Chuchkin, V. G.; Rozhdestvenskiy, V. I.

TITLE: Thermal flowmeter for small flow rates of liquid. Class 42, No. 168484

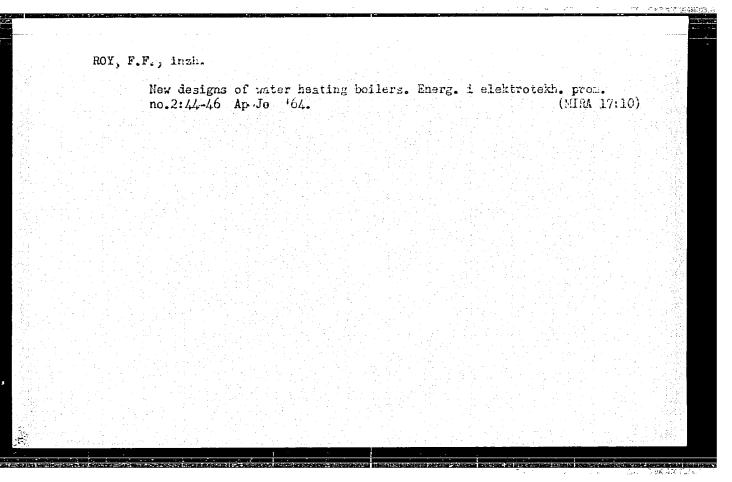
SOURCE: Byulleten! izobreteniy i tovarnykh znakov, no. 4, 1965, 72-73

TOPIC TAGS: liquid flowmeter V

ABSTRACT: This Author Certificate presents a thermal flowmeter for small flow rates of liquid. The device contains a thermocouple with two junctions as the sensing element, a measuring tube passing through the two-chambered case of a thermostated detector, and two thermostates maintaining a temperature drop between the detector chambers. To increase the accuracy of measurement, the thermocouple is placed along the axis of the measuring tube. Both junctions are placed in one detector chamber (see Fig. 1 on the Enclosure). To increase the sensitivity of the device by creating an equilibrium temperature field in the region of the detector case, it is provided with additional chambers inside of which are mounted perforated tubes. Orig. art. has: 1 diagram.

ASSOCIATION: none SUBMITTED: 29Nov63 NO REF SOV: 000 Card 1/2

ENCL. 01 OTHER: 000 SUB CODE: IE, ME



CIA-RDP86-00513R001445520002-8 'APPROVED FOR RELEASE: 07/19/2001

Dubinin, A.A. (Eng.) and Roy, F.F. (Eng.).

633

TITLE:

On the question of mechanisation of fuel supply and ash removal in low power boilers. (K voprosu mekhanizatsii toplivopodachi i shlakoudaleniya kotlov maloy moshchnosti).

PERIODICAL: "Teploenergetika" (Thermal Power), Vol.4, No.5, May, 1957, pp. 59-61 (U.S.S.R.)

ABSTRACT:

The supply of fuel to small boiler houses can be mechanised by the use of a vertical horizontal skip and self-unloading bucket with a small crusher. This system has been used for boiler houses with an output of 6-12 tons of steam per hour. The fuel is delivered from the store to the boiler house by a mobile loader This loader consists of special automobile type M4000. on the back of which is mounted a lifting device with a capacity of about 2.4 tons lifted to a height of 9 m. On its way from the store to the boiler house the loader passes onto a weigh-bridge to determine the weight of fuel. A sectoral shutter is installed under the crusher and it opens automatically as the bucket comes underneath it. The loaded bucket then passes to the fuel bunkers above the furnaces where it is tipped. When the steam output is less than 6 tons per hour the autoloader can be fitted with a grab which takes fuel from the store and lifts it directly to the bunker gallery unloading it into the crusher bunker from which it goes by gravity to a furnace. The loader can deliver coal

On the question of mechanisation of fuel supply and ash removal in low power boilers. (Cont.)

at the rate of 4.5 tons per hour from a store 150 m away. This method of fuel delivery is very simple and cheap. Simple ash removal systems are described. In the first of these a channel filled with water is provided directly under the furnaces forming a water shutter. The ash is removed from this channel by dragging a scraper along it with a winch and rope, the ash being deposited in a small collecting sump. If it is necessary to repair the scraper, screens can be fitted under the outlet apertures of the furnace slag bunkers. In another installation a scraper type conveyor is installed in the water channel. A further arrangement employing low head hydraulic ash washing is also briefly described. This last method is different from the previous two in that there are no wearing parts, it is simple to service and the initial cost is low. 5 figures, no literature

Card 2/2

references.

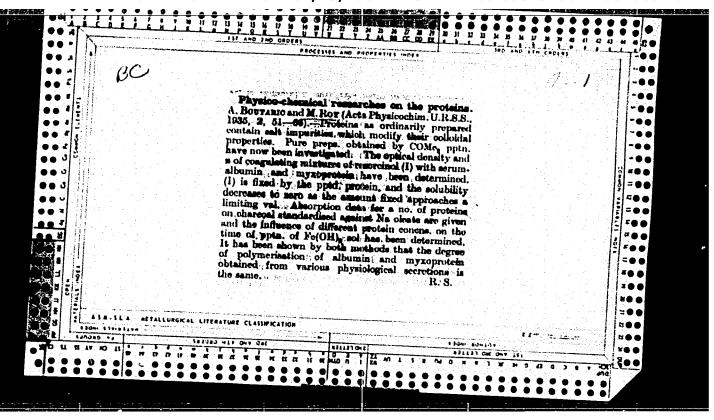
VOIOSHCHENKO, S.P., inzh.; ROY, G.I., inzh.

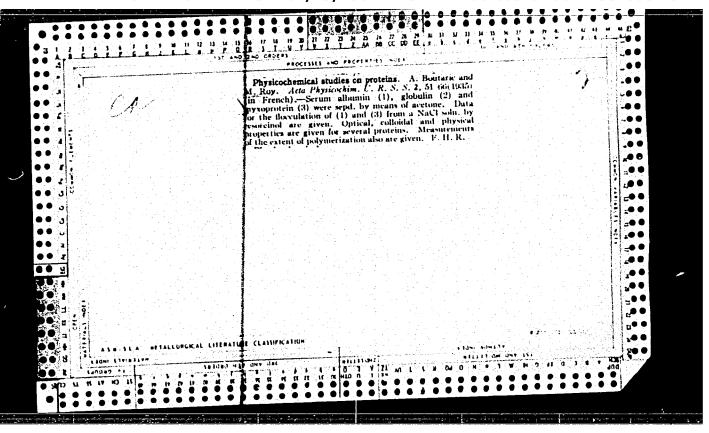
Internal automatically actuated cage hoist stopping device.
Gor. zhur. no. 11:62-63 M '60. (MRA 13:10)

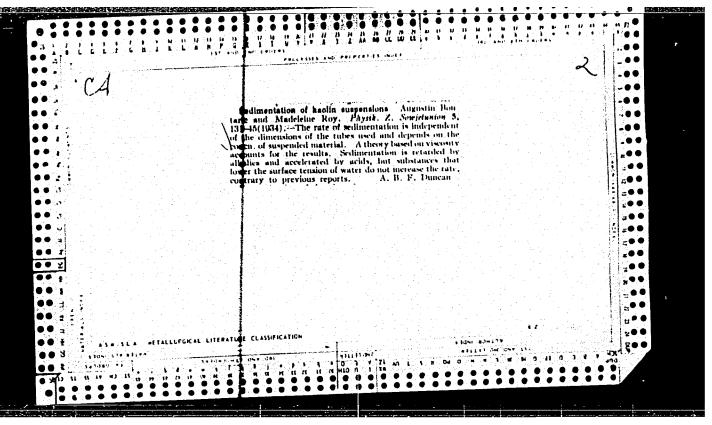
1. Mauchno-issledovatel'skiy gorno-razvedochnyy institut
(for Voloshchenko). 2. Rudoupravleniye im. Ordzhonikidze,
Krivoy Rog (for Roy).

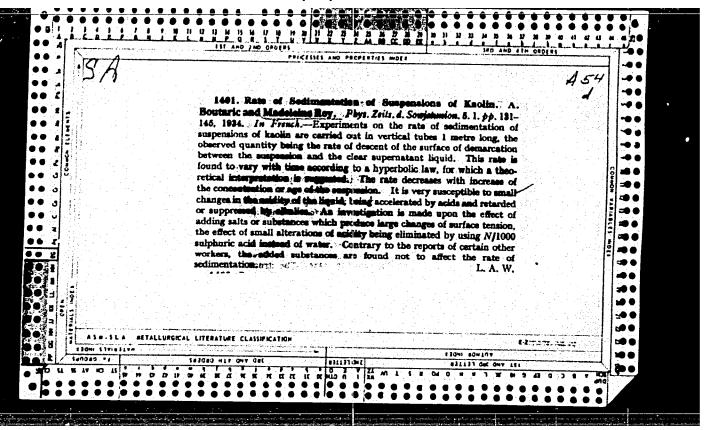
(Mine hoisting--Equipment and supplies)

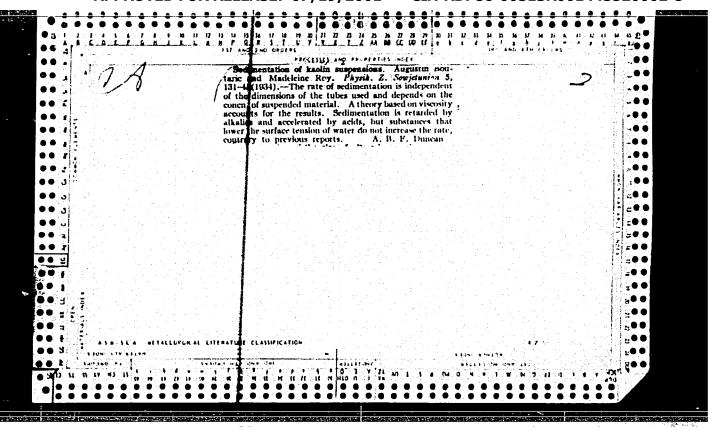
	,.
OLNYSHKOV, A. I.; KOMAROV, V. P.; KUZNETSOV, V. S.; ABROYAN, M. A.; IVANOV, N. F. HELEZNIKOV, F. G.; ROYFE, I. M.; ZABLOTSKAYA, G. R.; IVLEV, I. V.; LATMANISOVA, G.	м.
nd GRRASIMOV, V. P. 1997 P. 19 Berling B. 1997 P. 199	
Current Injector for a Strong Pocussed Linac.	
sport presented at the Intl. Conf. on High Energy Accelerators, Dubna, August 1963.	
가리얼마가 들었다. 어느라는 그리면 바다 이 시간에 대한 그리는 역사인을 하루는데 건강했다.	
본 사람들은 그들이 하는 사람들은 사람들이 되었다. 그는 사람들은 사람들이 가장 없었다.	
되어 불호 등이 하시는 사람들은 전환하게 하는 생활이 있는 사물에 되었다면 하나를 통했다.	
현대들의 물론 전에 되었다. 현실적인 기능한 시간 시간에 의용하는 것 같아요? 그 사람들은	
등로 보기 시간 시간 회사는 이 기교 등의 사람이 하고 있어 전에 관련을 보니 없었다. 그 모델 [#	
보고 이용하고 하시고 하는 그들이 그렇게 살았다. 그렇게 그렇게 그릇하는 그렇게 하는 그렇게 했다. 다른 사람이 없는 그렇게 되었다.	
엄마는 경우 그 그 그는 그는 그는 그들은 살이 그는 그는 그는 그를 살이 그 모양을 했다.	
리트를 보고 있는 하고 있는 한 시간을 보고 하는 하는 일을 모르고 하는데 모든 등을 하고 있을까?	
함으면 하시시는 그들이 사람이 하면 나왔다는데 그 그렇지만 하다면 하지만 불렀다면 했다.	
라고 있다. [12] 12 : 12 : 12 : 12 : 12 : 12 : 12 : 1	
에서 가는 사람들은 마음을 가는 것을 받는 것이다. 그리고 있는 사람들은 사람들이 가는 것이다. 그런 그리고 있는 것이다. 그런 사람들이 다른 것이다. 그런 사람들이 다른 것이다. 사람이 그렇게 되는 것이다. 그는 사람들은 사람들은 사람들이 되는 것이 되었다. 그런 사람들이 다른 것이다. 그런 사람들이 가득했다. 그런 것이다.	
사는 사람들이 되었다. 그는 사람들이 되었다. 	

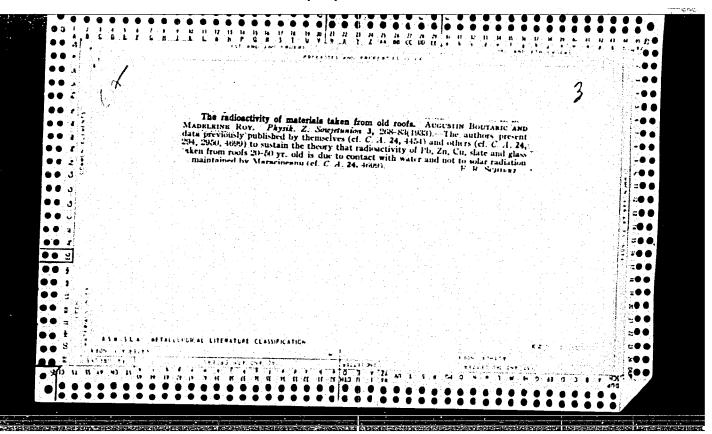


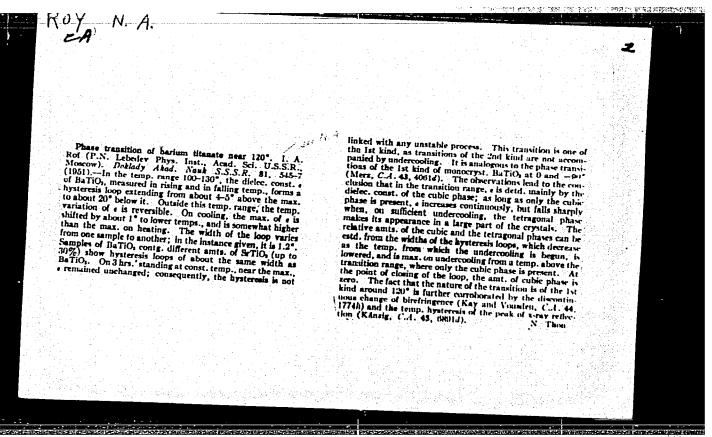












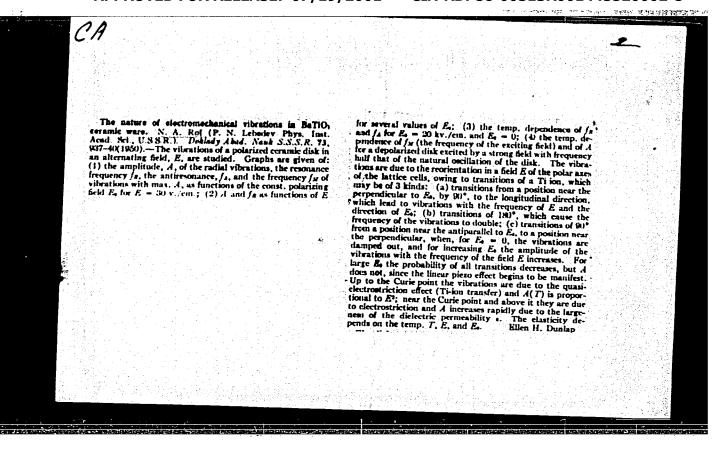
ROY, N.

Roy, N. "Research on the wave length as a function of variation in the slit contours of a generator with a four-segment magnetron," Sbornik nauch. rabot studentov (Rost. n/D gos. un-t im. Molotava), Issue 1, 1949, p. 133-40

SO: U-3566, 15 March, 53, (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445520002-8



ACCESSION NR: AP4044725

s/0207/64/000/004/0108/0113

AUTHORS: Ioffe, A. I. (Moscow); Naugoliny kh, K. A. (Moscow); Roy, N. A. (Moscow)

TITLE: On the initial stage of an electric discharge in water

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1964, 108-113

TOPIC TAGS: electric discharge, ionized gas, heat transfer, dissociated gas, discharge column, gas pressure, plasma conductivity

ABSTRACT: The process of an electric discharge column spreading in water was discussed analytically for small spreading rates and zero magnetic forces. A theoretical model is constructed on the basis of small dR/dt (R- column radius) assumption which leads to linear acoustic approximations that satisfy Laplace's equation $\Delta P = 0$ and the linearized Euler momentum equation. This in turn leads to an expression for the pressure around the discharge column given by

 $p - p_0 = -\rho_0 \frac{\partial \varphi}{\partial t} - \frac{\rho_0}{2} \left(\frac{\partial \varphi}{\partial r}\right)^3$

Dissociative heat transfer in a thin layer around the discharge column is considered to be the primary source of energy loss, and for a planar geometry and constant mass flow rate the temperature distribution

Card 1/2

ACCESSION NR: AP4044725

 $\frac{dT}{dx} = -\frac{R^{2}p}{2\pi T_{2}} 5.5 \left[(1+\alpha) - T_{1} \right] \quad \text{Analysis shows this}$ is described by the equation

transition layer to be of the order of 10-5 cm. The temperature within the column is dotermined using conduction-diffusion equation with Saha's equilibrium ionization expression for temperature estimates not exceeding 15000C. A mean adiabatic coefficient Y is determined for water in the 9000-160000 temperature range and 500 to 2000 atm range (Y = 1.21), and from an energy balance equation an expression is derived for column expansion rate u given by

 $u^4\left(\ln\frac{2c}{u}-\frac{1}{2}\right)=\frac{N_0\left(\gamma-1\right)}{2\pi\gamma p}$. Radius versus time and discharge potential entertial determined column radii. versus time curves are calculated using experimentally determined column radii. This is done by means of photographing the discharge. "The authors thank S. I. Braginskiy for helpful discussions." Orig. art. has: 16 formulas and 6 figures.

ASSOCIATION: none

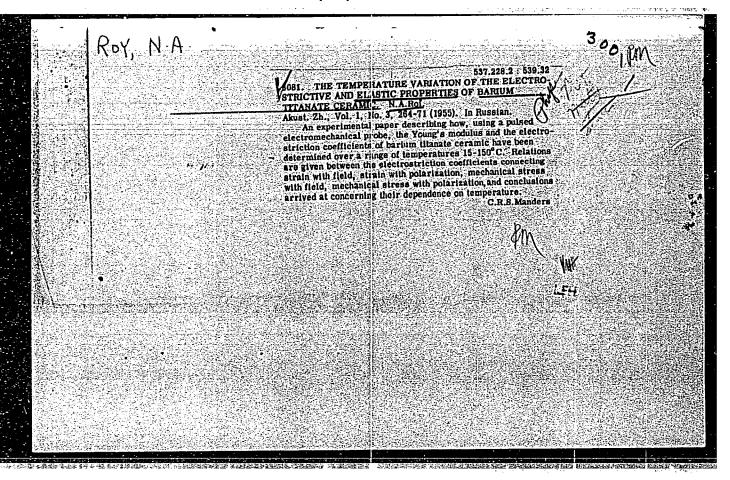
SUBMITTED: 09Jan64

ENGL: 00

SUB CODE: ME,GP

NO REF SOV: 005

OTHER:



GOLYAMINA, I.P.: ROY, H.A.

Device for measuring magnetostriction by means of interference techniques. Prib.i tekh.eksp.no.2:129-131 S-0 '56. (MLRA 10:2)

1. Akusticheskiy institut AN SSSR.
(Interferometry) (Magnetostriction)

AUTHOR:

Roy, N.A.

46-1-1/20

TITLE:

Formation and development of ultra-sonic cavitation (Review). (Vozniknoveniye iprotekaniye ultrazvukovoy kavitatsii; Obzor).

PERIODICAL: "Akusticheskiy Zhurnal" (Journal of Acoustics), 1957,

Vol. III, No. 1, pp. 3 - 18 (U.S.S.R.)

ABSTRACT:

A survey of theory and experiments related to ultra-sonic cavitation. The following are covered: The theoretical strength of liquids and the hypothesis of stable nuclei. mechanism of transition from liquid to gaseous states due to "critical nuclei" has been described by Frenkel, 1) and Zeldovich, 2); the behaviour of stable nuclei in an acoustical field; the experimentally observed strength of the liquid under the influence of an ultra-sonic field and, finally, the cavitation noise.

In conclusion, it is established that: the strength of the liquid is determined mainly by stable gaseous nuclei; there is no evidence as to the causes of their formation, though it

is thought that they are stabilised by organic skins; their content in the liquid may be reduced by gas absorption,

increased pressure or decrease in temperature; their size distribution in the liquid is not known; clearly, the probability of occurrence of a large, i.e. of a "weak" nucleus in the regions of increased acoustical pressure, increases with the

volume increase of this region; it may also be due to the

Card 1/2

Formation and development of ultra-sonic cavitation (2-1-1-1) (Cont.)

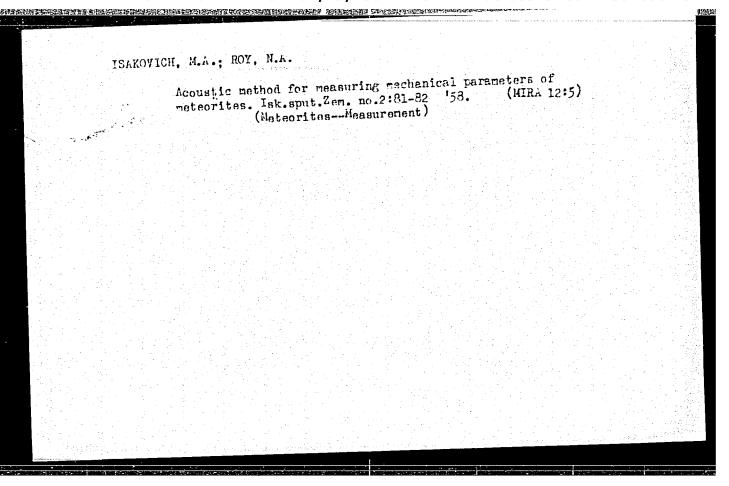
increase of the total volume of the liquid, with a stream in it. Tearing off of the liquid from the surface of a solid with bad wetting properties may distort the strength of the liquid at that spot. In an acoustical field, the stable nuclei may move into regions of higher acoustical pressure or increase their volume as a result of coagulation and, possibly, of diffusion of the dissolved gas during the expansion phase. At higher frequencies only small diameter, i.e. more stable nuclei can undergo cavitation. The above determine the main factors influencing the experimentally-observed strength of liquids. These factors are: presence of stable nuclei, volume of the region of increased pressure, sound frequency and time of sound irradiation.

In most experiments, the relative influence of one factor upon others was not adequately controlled. In the main, only qualitative data of influence of various factors (e.g. qualitative data) on the observed strength are known, with the viscosity, etc.) on the observed strength are known, with the possible exception of the influence of gas content. There is enough evidence about the cavitation noise that its level could serve as means of measuring the intensity of shocks during the collapse of cavitational strata. Numerical evaluations show that this intensity should increase with decreasing frequency, at which the cavitation effect occurs.

Card 2/2

15 graphs and two tables are included. There are 22 references, of which 3 are Russian.

sound Genevation by Spark and Corona Discharges in Water."								
pape	er presente	ed at the	4th All-Union	Conf. on Acous	tics, Moscow,	26 May -	2 Jun 58.	



AUTHORS:

Frolov, D. P.

20-118-4-16/61

Roy, N. A.,

TITLE:

The Electroacoustic Efficiency of Spark Discharges in Water (Ob elektroakusticheskom KPD iskrovogo

razryada v vode)

Doklady Akademii Nauk SSSR, 1958, Vol. 118, Nr 4,

pp. 683-686 (USSR)

ABSTRACT:

PERIODICAL:

The present paper attempts to determine data on the electroacoustic efficiency of a discharge subject to various conditions, which are determined by the length of the discharge gap, the amount of capacity discharged and

the electric potential. The circuit diagram of this device is illustrated by a figure. This circuit permits a discharge at one gap (which is described here) and the simultaneous disc arge at several gaps. The generation of the discharge is shortly discussed. A diagram represents

the time characteristics of the amperage I(t) and of the

potential V(t) during the discharge of a capacity of

c = 0,1,4 \$

Card 1/3

20-118-4-16/61

The Electroacoustic Efficiency of Spark Discharges in Water

(at a potential V = 30 kV) across different spark gaps. These characteristics show the following: The generation of an auxiliary spark in the air-gap guarantees an increase of the potential across the spark gap to 30 kV during fractions of a microsecond. Afterwards the potential remains almost constant during a few microseconds and a weak current passes through the spark gap. The duration of this period varies from experiment to experiment and on the avarage decreases on a decrease of the spark gap. This period terminates with a potential jump, which fact speaks in favour of the breakdown of the spark gap. The shorter the spark gap, the lower the potential drop. After the jump point the potential slowly decreases, the current curve, however, forms a peak. The acoustic field of the spark was determined at a distance of R = 100 cm from the center of the spark gap. Some oscillographs are given here. The electroacoustic impulse was here defined to be the ratio between (energy of the pulse with positive pressure / the energy stored in the condenser). A formula is written down for the total energy of the impulse. The efficiency of the transformation of a stipulated amount of electric energy into

Card 2/3

CIA-RDP86-00513R001445520002-8 "APPROVED FOR RELEASE: 07/19/2001

The Electroacoustic Efficiency of Spark Discharges

20-118-4-16/61

in Water

acoustic energy decreases at a decrease of the spark gap, that is to say, independent of the fact, whether C and V remain constant or wether C is increased and V decreased. The efficiency decreases also, if the length of the spark gap remains constant, when the supply of electric energy is increased by an increase of C at constant V. The transition of energy from its electric to its acoustic form in a spark discharge in water is proceeding most efficiently (with an electroacoustic efficiency of up to 30 %) in discharges with long sparks.

There are 3 figures, 2 tables.

Akusticheskiy institut Akademii nauk SSSR ASSOCIATION:

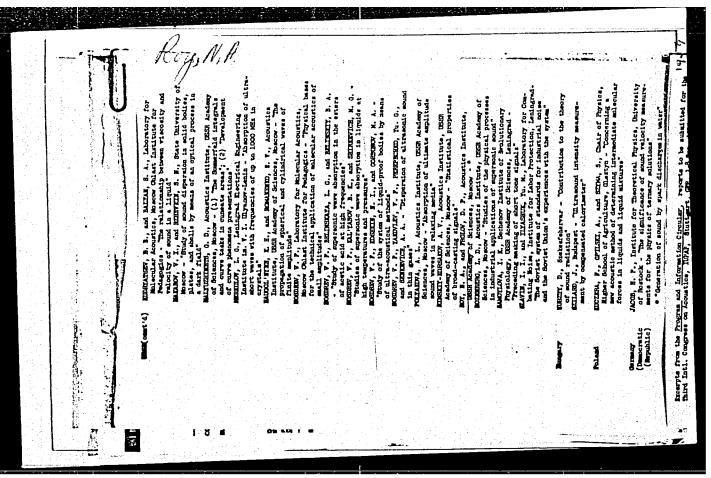
(AcousticsInstitute AS USSR)

August 28, 1957, by N. N. Andreyev, Member of the Academy PRESENTED:

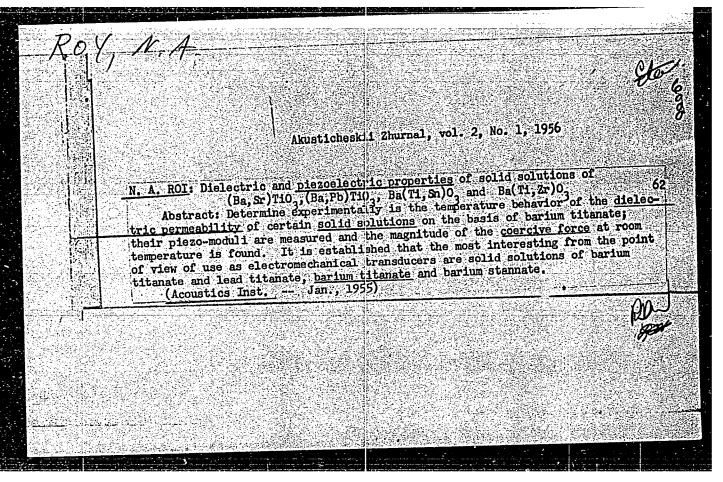
August 24, 1957 SUBMITTED:

Library of Congress AVAILABLE:

Card 3/3



Roy, N.A.	· · ·
	537.226.2 5067. THE DEPENDENCE OF COERCIVE FORCE AND PERMITTIVITY OF BARIUM TITANATE CERAMIC UPON MECHANICAL STRESSES. N.A.Roj. Akust. Zh., Vol. 1, No. 4, 352-5 (1955). In Russian. Application of mechanical stress is shown to increase the coercive force of barium tatanate. A study of the variation of delectric constant with temperature of the ceramic both in the free and stressed states leads the author to the conclusion that current thermodynamic theory, taking no account of domain structure, does not fit the facts. C.R.S.Manders
	acoustics drat, AS USSR Moraw mil



37150-66 EWT(1)/EWT(m)/EWP(t)/ETI/EWP(k) IJP(c) JD/HW

SOURCE CODE: UR/0020/66/168/003/0556/0559

AUTHOR: Naugol'nykh, K. A.; Roy, N. A.

ORG: Acoustics Institute, Academy of Sciences, SSSR (Akusticheskiy institut Akademii nauk SSSR)

TITIE: On the connection between the hydrodynamic and electric characteristics of a discharge in a liquid

SOURCE: AN SSSR. Doklady, v. 168, no. 3, 1966, 556-559

TOPIC TAGS: electric discharge, hydrodynamic theory, discharge channel, acoustic property, electric property

ABSTRACT: An approximate energy balance per unit length of the channel is written out for moderate-current discharges, when magnetic forces can be neglected, in the form

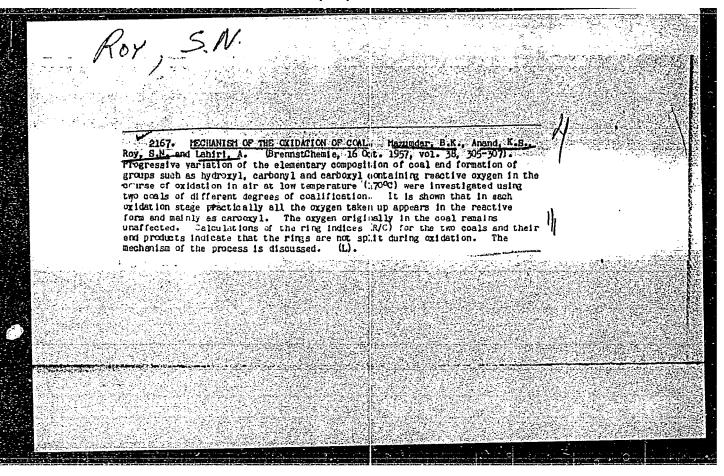
$$p_{\kappa} \frac{ds}{dt} + \frac{1}{\gamma - 1} \frac{d}{dt} p_{\kappa} s = N(t),$$

The channel pressure p_k entering into this equation can be expressed in terms of the channel radius R by solving the hydrodynamic problem involving the expansion of the cylinder in the liquid in the acoustic approximation. The net result is a system of equations describing the expansion of the channel from a known dependence of the energy release on the time per unit channel length (normalized to unity). By numerically solving this equation and by regarding the discharge channel as an aggregate of point

Card 1/2

UDC: 537.528

sults of the discl in the comental of buted to possible expansio	an expression the calcularge currompression nes in the nonlinear deviation or rates. ort was prigures, 9	sion is oblations arent, the epulse. It case of leffects, s of the control of the	lectrode-gine the theoret arge chann which are channel for thank No. Academici and 1 tab	ar voltage ical resule expansing taken from the G. Kozhel an N. N. Ale.	y of the conrimental dat, the channed ts differed on rates. I into account assumed on upova for hundreyev 4 Second	el radius, a noticeably This different in the eque in the case of	nd the pre from the e ence is att ation, and e of large calculati	ssure xperi- ri- ons.
SUB CODE	: 20/	SUBM DATE	: 23Ju165/	ORIG I	EF: OO			



Preparation of cesium	IKO, Ye.B.; ROY, V.			
TSvet. met. 34 no.5: (Cesium car	55-57 My '61.	odumene)	(MIRA 1415)	
				Ż.

KOROLEV, Yo.M.: ROY, V.I.; MATVEYEVA, V.A.

Waterproofing of strain gauges for measuring deformations under high pressure. Zav.lab. 25 no.10:1250-1252 '59. (MIRA 13:1)

1. Irkutskiy filial Vsesoyuznogo nauchno-issledovatel'skogo i konstruktorskogo instituta khimicheskogo mashinostroyeniya. (Strain gauges)

22801

1087, 1208, 1454

5/136/61/000/005/004/008

E111/E152

18.31DO AUTHORS:

Goroshenko, Ya.G., Panasenko, Ye.B., Roy, V.A., and

Izotov, V.P.

TITLE:

Production of caesium carbonate from pollucite-

spodumene concentrate

PERIODICAL: Tsvetnyye metally, 1961, No.5, pp. 55-57

TEXT: A possible source of caesium salts are pollucites spodumene concentrates. The object of the present investigation was to study the possibilities of producing caesium carbonate in this way with lithium as a by-product. Experiments were first made in which pollucite, spodumene and their mixtures were treated in a 20-litre autoclave. For pollucite leaching the best conditions were: 3 mols Ca(OH)2 per mol SiO2, solid:liquid ratio 1:5, were: 3 mols Ca(OH)2 per mol SiO2, solid:liquid ratio 1:5, temperature 220 °C, pressure 20 atm; but the stirring rate of 25 rev/min was insufficient and a horizontal ball-loaded rotating autoclave would have been preferable. Spodumene had to be converted to the beta form by roasting before leaching. Artificial concentrate was produced by mixing pollucite with alpha-spodumene (2:1) and calcining at 1000 °C and leaching with a higher stirring

Card 1/2

22801

Production of caesium carbonate.... S/136/61/000/005/004/008 E111/E152

rate of 110 rev/min. From the collective concentrates containing 13.80% Cs20 and 2.70% Li20 the recovery of lithium and caesium into the solution was 88.3 and 88.1%, respectively. concentrates are not roasted there is selective leaching of caesium; lithium can then be recovered from the sludge at works treating spodumene by the lime method. Experiments were carried out on treatment of solutions. After conversion to alums and four recrystallizations the following degree of contamination of the caesium was obtained: 99.5% Cs, 0.2 Rb, 0.1 Na, 0.2 K, 0.0 Li. To produce one ton of caesium carbonate with the 73% recovery expected of the method requires 7.4 tons of pollucite concentrate, 15.6 slaked lime, 0.5 sulphuric acid (monohydrate), 4.6 aluminium sulphate, 0.5 anhydrous barium hydroxide and 260 m3 of carbon dioxide. The authors consider that with recovery of caesium from the mother liquor and a better design of autoclave, 87% recovery should be possible. The method developed has the advantage of not requiring pure, scarce or expensive material, it yields products of any purity up to chemical reagent standard, and can easily be switched from the production of caesium carbonate to yield any other caesium salts. There is 1 table. Card 2/2

LAVRENT'YEVA, V.A.; ROY, V.A.; TOLSTOV, V.N.; FOKINA, V.I.; SHINGARKIN, S.M.

New advances in the treatment of multiple sclerosis, preliminary report. Zdrav. Kazakh. 21 no. 4:42-44 '61. (MTRA 14:4)

1. Iz Ural'skoy oblastnoy bol'nitsy. (MULTIPLE SCLEROSIS)

28 (5) AUTHORS: Korolev, Ye. M., Roy, V. I., Matveyeva, V. A. SOV/32-25-10-41/63

05752

TITLE:

Waterproofing Transmitters Which Measure Deformations Under

Higher Pressure

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 10, pp 1250 - 1252

(USSR)

ABSTRACT:

Investigations of the state of stress in damaged parts of industrial devices for high pressure were carried out by the tensiometric method. For the determination of deformations on the inner surfaces it was necessary to seal the transmitters against the action of water at high pressure (400-900 atm). The carbinol paste prepared for this purpose at the NIIKHIMMASh (Ref 1) proved to be inadequate. Various sealing media were tested (Table) such as bakelite varnish, silicon nitroglyphtal glue 192-T, bitumen varnish, nitro lacquer, carbinol paste, perchlorovinyl paste, technical vaseline-paraffin mixtures, and "Pushsalo"). The sealing qualities were tested by means of the transmitter of the type ET-1, and it was found that the two last-mentioned substances effect the best sealing. As the outlet of the transmitters had to be altered also for tests to be carried out at high pressure under water, a new construction

Card 1/2

Whiterproofing Transmitters Which Measure Deformations 50V/32-25-10-41/63

was worked out also for the latter (Figure), which provides for a chlorovinyl insulation with a rubber insert. There are 1 figure, 1 table, and 2 Soviet references.

ASSOCIATION:

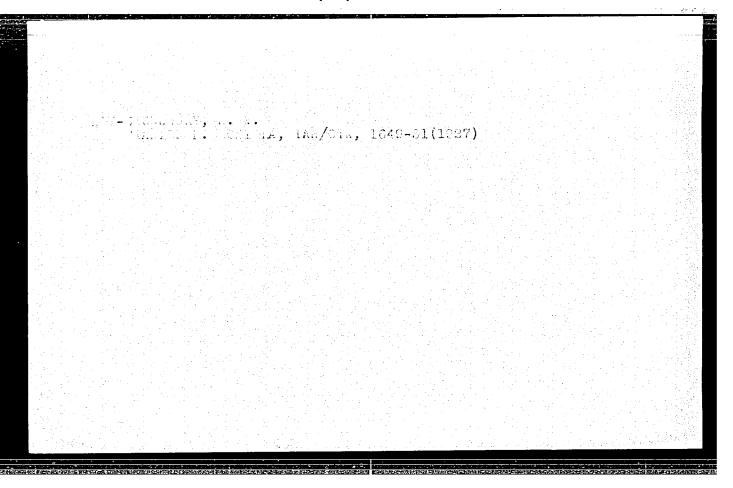
Irkutskiy filial Vsesoyuznogo nauchno-issledovatel skogo i konstruktorskogo instituta khimicheskogo mashinostroyeniya (Irkutsk Branch of the All-Union Scientific Research- and Designing Institute for Chemical Machine Building)

Card 2/2

hare injury of the urinary bladder. Yest. Whir. 92 n	io. (MIR/	:-92 : .8:1)	
1. Iz khirurgicheskogo otdeleniya (zav V.P. Roy) ob"yedinennoy bol'nitsy (glavnyy vrach - T.A. Khivri	Rovens Lch).	skoy det	.sko y
용에 보고 있는 동안에는 한 살으로 현재하고 있다. 한 당신 한 상대에 기교로 하려면 한 기기를 하면 하나요?			
생물하는 물건물을 받았는데 전에 있는 사람이 되었다.			

DOT, Ve.S.				
1,21,				
Voy onyt rabor	y na traktornoy lor	ate. (Moyevskly saki	earnyy zauod).	
M., Pishchenwar	mizdat, 1954. lós.	s ill. 20 sm. (M-uo ekz. B. ts V per	prom-stiprodguol's	tu.
A.F. Smirnov. G	.I. Diktor I L.K. D	orolcheu.—(54.54396)	679.7.02	ttorki:
	SO: Enizhenaya,	Letopis, Vol. 1, 19)55	

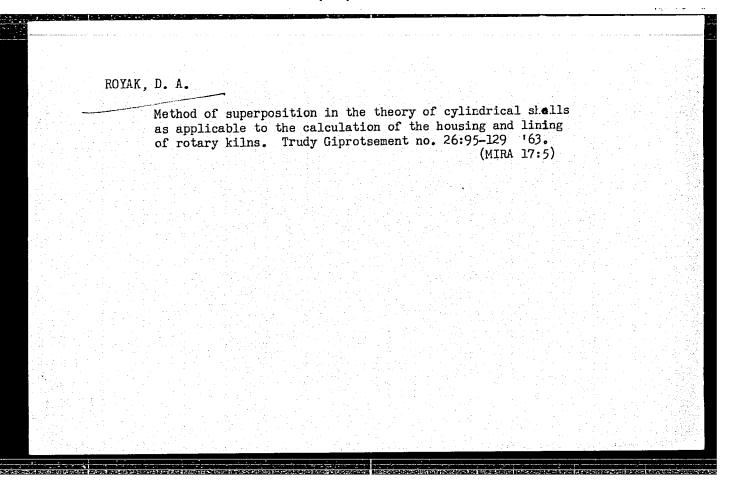
ROY,	Ye.S.			
	My experience in increasing the party of tractor-mounted shovels.	productivity and Sakh.prom. 28 no	improving the 0.4:27-29 '54. (MIRA 7:7)	
	 Moyevskiy sakharnyy zavod. (Sugar industryEquipment a 	and summlies) (Si	novals)	
	(outsit industry-aderhments c	Ma aabbarool (-	.010237	
-				
100				
	그 이 그 나는 사람들이 그리는 동일 하다.			
	이 교회를 많다고 하루 하임의 연극 발표 없는			
14 L				
f., -				
	化复数分类原数 医内皮囊囊皮质 医二氯化异己			



ROYAK, D.A.

Experimental study of the rigidity of the body of rotary kilns. TSement 28 no.4:11-13 J1-Ag '62. (MIRA 15:7)

1. Gosudarstvennyy institut proyektirovaniya predpriyatiy i po nauchno-issledovatel'skim rabotam tsementnoy promyshlennosti. (Kilns, Rotary)



	ROYAK.	D.A. (ening	rad)								
		Using	the m	ethod of	superp	osition	in cal	culatir	ng a ve	ry long		
		cylind	lrical	shell.	Inzh.z	hur. 4	no.l:	69-78	164.	(MIRA	17:4)	
i de la companya di dia dia dia dia dia dia dia dia dia					1.0							
							N. 1					
												1
							tig i tro					
											: 1	
									en Granden en en			
												3.5
er turji												
	F 1 2				ings in the							
	t this											
				and the								
			10.54									
Eleganorio			2.5			. Elifablia is						

ACCESSION NR: AP4026956

5/0258/64/004/001/0069/0078

AUTHOR: Royak, D. A. (Leningred)

TITLE: Computation of a very long cylindrical shell by the method of superposition

SOURCE: Inzhenernysy shurnel, v. 4, no. 1, 1964, 69-78

TOPIC TAGS: cylindrical shell, superposition, radial perturbation, concentrated force, contact problem, ring and shell contact, potential function, radial force, numerical error, Poisson coefficient, Rayleigh formula

ABSTRACT: The author obtains formulas and tables which allow a very simple determination of radial perturbations of a very long cylindrical shell under the influence of any number of arbitrarily situated concentrated forces. He gives numerical values of the greatest possible error. Examples are presented illustrating his method. The formulas and tables are obtained in the following fashion. The terms of the expansion of radial perturbation are presented as tabulated roots and coefficients of a potential function, they are approximated by simple expressions, and the greatest possible error determined. The longitudinal coordinates $(S = |x|/\hbar R)$ make it possible to obtain coefficients which determine the sums of

Cord 1/3

ACCESSION NR: AP4026956

the terms of the expansion, i.e., radial perturbations without the sero-th and first terms. For determining the radial perturbation at the point (0,0), subject to concentrated forces P_i applied at points with coordinates (ζ_1, φ_i) , it is necessary to describe, from the tables, the coefficients corresponding to the given coordinates. The desired result-radial perturbation -- is determined by the sum of the products of these coefficients with the magnitudes of the corresponding forces and a constant multiplier. This method is especially effective when there are many forces and when the magnitudes of the forces acting on the shell are unknown and when they are to be determined from the solution of a contact problem, for example, for contact of a ring and a shell. The computations show that the obtained table of coefficients, which makes possible the direct determination of radial perturbation under the effect of radial force, guarantees accuracy of 5% under the effect of concentrated forces or forces arbitrarily distributed in squares whose largest dimension b < 0.1R, for ratios of the radius to the thickness of the shell $25 \le R/h \le 200$. Correspondingly, when $16 \le R/h \le 100$ and $b \le 0.3$ R, the greatest possible error does not exceed 10%. Orig. art. has: 29 formulas and 2 tables.

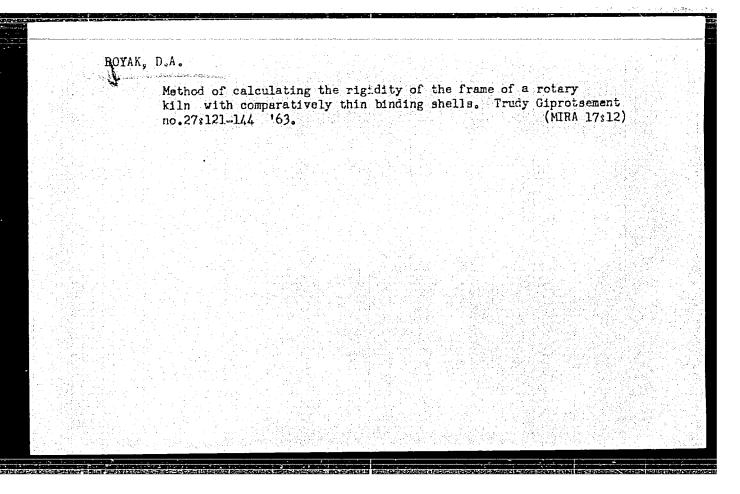
Card 2/3

24 2

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520002-8

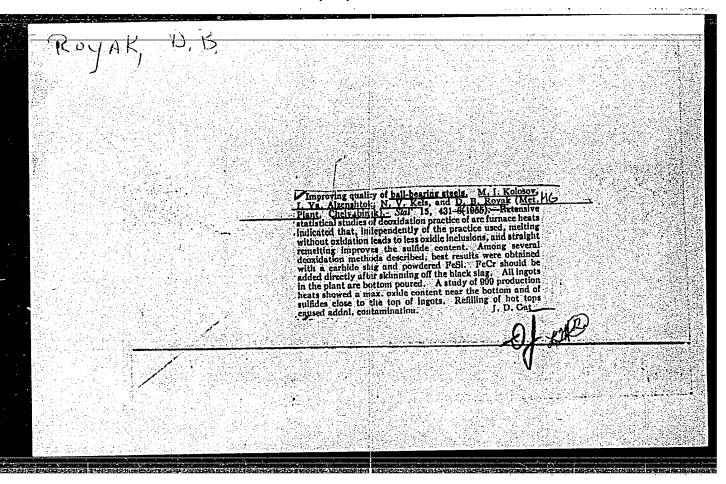
	ACCESSION NR: AP4026956			
	ASSOCIATION: none			
	SUBMITTED: 21Jun63	3.00		
	SUB CODE: AP	MO RES	154pr64 150v: 008	EVCL: 00
				OTHER: OOL
Co	ord 3/3			
	The state of the s			

nijekemekla som ob	Determining the contact forces acting on the freel on tire of a rotary kiln. Khim. i neft. mashinost 23-31 S '64.	ly put tr. no.3; (MIRA 17:12)	



ROYAK	, D.A., Insh.	
	Technical constitution. Therent himself in the grant of	(8:81 Sin)
	1. Gosudarsivernyy vsecoydrovy institut to proyectirowally nauchno-is-ledovateliskim rabotam tesmentnoy oromysalesnos Leningrad.	ai iti,
	요. 사람들은 경기 이번 시간에 가는 사람들이 되었다. 이 그 전에 가는 것이 되었다. 그리고 있는 것은 것은 사람들이 되었다. 그는 것은 것은 것이 되었다. 그는 것은 것이 되었다. 그	
	사이 되었다. 그런 아이는 사람들은 중요한 그 등록 하는 사람들이 되었다. 그는 사람들이 되었다. 사람들이 보고 있는 사람들이 가장 사람들이 되었다. 중요한 사람들이 모르는 것이 되었다. 사람들이 되었다.	
	. [1] 그는 이 경험 등록 이 그리고 있을 것으로 그리고 가장 하는 것이 모음을 한 것 같은 것을 하는 것을 보았다는 것으로 보는 것을 하는 것이다.	
	경기에서 제한 발표로 한 일 하시고 한 경기를 하는 것이 되는 것이다. 하는 장면 보고 하시고 있는 것이다. 그는 그 그 그 것이 하시고 있는 것이다.	

		and the second	
ROYAK,	D.A. (Leningrad)		
	Unified approximate characteristical shell. Izv.AN SSSR.Otd.tekh.	ilduk s-Chitz indo	lar cylindri- . no.5:142- (MIRA 14:9)
	inc 320 %1. (Elasti	ic plates and shells)	
	마이 말이나 사람들이 되었다. (1910년 개년 강의 1910년 1일 기타를 하기 하는 사람들이 되다.		



MALINOVSKIY, Ye.I., kand. tekhn. nauk; ROYAK, D.B., inzh.

Effect of deoxidation conditions of 38KhMIUA steel on its nonmetallic inclusion content. Izv. vys. ucheb. zav.; chern. met. 2 no.4:53-56 Ap '59. (MIRA 12:8)

l. Chelyabinskiy politekhnicheskiy institut i Chelyabinskiy
metallurgicheskiy zavod. Rekomendovano kafedroy metallurgii chernykh
metallov Chelyabinskogo politekhnicheskogo instituta.

(Oxidation-reduction reaction) (Steel--Defects)

sov/133-59-9-13/31

AUTHORS: Keys, N.V., Ayzenshtok, I.Ya., Komissarov, A.I. and

Royak, D.B., engineers

TITLE: The Production of Steel 38KhMYuA for Internal Combustion

Engines

PERIODICAL: Stal', 1959, Nr 9, pp 808-811 (USSR)

ABSTRACT: Changes in the technology of smelting 38KhMYuA steel

since the start of its production in 1952, are outlined. The main points in the smelting technology used at present: a) a preliminary deoxidation of the bath with pig iron after the end of the oxidising period; at the beginning of refining, the bath is deoxidised with a mixture of silicomanganese and 75% ferrosilicon in lumps; b) addition of ferrochromium at the beginning of refining; c) diffusion deoxidation with coke and

refining; c) diffusion deoxidation with code and ferrosilicon during 20 minutes; d) shortening of the reducing period to 80 minutes (instead of 120 to 150 minutes in the previous technology) metal temperature before casting 1600 to 1620°C in the ladle 1575 to 1590°C.

Despite improvements in the smelting technology, the proportion of defective metal is still high (in 1957 - 145%).

Card 1/3 Due to the appearance of spot segregation, head crops were

SOV/133-59-9-13/31

The Production of Steel 38KhMYuA for Internal Combustion Engines

increased to 25%. Most common defects encountered in this type of steel are described: 1) Spot segregation consisting of localised enrichment of metal in carbon, sulphur and phosphorus; the appearance of the defect is associated with the evolution of gas during crystallization. 2) "Bubbles" - in the axial zone of macrotemplets discontinuities in the metal called "coarse bubbles" (Fig 1). A fracture along the zone of the "bubbles" appears as lamination in the form of dark thread. changes in structure in the zone of the defect was noticed, non-metallic inclusions are absent. Studies of longitudinal cross sections of ingots (Fig 2) indicated that the defect is associated with insufficient feeding of the ingot during its solidification. 3) Cracks usually situated in the central part of macrotemplets (Fig 3). The defect was found to be caused by too early transportation of ingot bogies after teeming (40 minutes) by retaining the bogies in the casting pit for 2 hours 20 minutes this type of defect disappeared. An investigation of the defects in the finished parts blisters (Fig 5, 6 and 7) indicated that some improvements

Card 2/3

SOV/133-59-9-13/31

The Production of Steel 38KhMYuA for Internal Combustion Engines

in the forging of semis and stamping of parts are necessary as at present, the central part of the ingot is pushed towards the internal working surface of the stamped parts. The necessity of establishing well founded standards for defects which at present are considered as unavoidable is stressed. There are 7 figures and 6 Soviet references.

ASSOCIATION: Chelyabinskiy metallurgicheskiy zavod (Chelyabinsk Metallurgical Works)

Card 3/3

EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)-13066-66 IJP(c) ACC NR: AP5028573 SOURCE CODE: UR/0148/65/000/011/0039/0043 AUTHOR: Krichevets, M. I.; Donets, I. C.; Royak, D. B.; Povolotskiy, D. Ya ORG: Chelyabinsk Polytechnic Institute (Chelyabinskiy politekhnicheskiy institut TITLE: Effect of the slag regime of melting on the plasticity of Ni-Cr-base alloys SOURCE: IVUZ. Chernaya metallurgiya, no. 11, 1965, 39-43 TOPIG TAGS: slag, nickel base alloy, chromium base alloy, plasticity, alumina, calcium ABSTRACT: The principal parameter investigated was the Al₂0₄/CaO ratio of the slag, since this technological factor largely determines the conditions of the reduction of Ca which, according to V. M. Pridantsev (Vliyaniye primesey i redkozemel'nykh elementov na svoystva splavov. Metallurgizdat, 1962), adversely affects the plasticity of Ni-Cr-base heat resistant alloys. As the Al₂0₃/CaO ratio increases, the Ca content of the melt decreases. This was verified by carrying out a large series of experimental remeltings in an electric arc furnace. The plastigity of the metal was determined visually (by forging samples to a 20 mm square with bending through 180°) and by determining the Ca content and the impact strength of specimens at high temperatures. Basic and alumina slags were used in the melting. During melting under basic slags, a slag mixture of lime and feldspar was added in the course of the melting process. Card 1/2 UDC: 669.15-194:669.24'26.046.5