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RESIDENT

L 11125-63 EPA(b)/EWT(1)/FCS(k)/BDS/ES(v) ASD/AFFTC/AFMDC Pd-4/Pe-4	
WW S/0258/63/003/002/0215/0221 ACCESSION NR: AP3000710	
AUTHOR: Bukovshin, V. G. (Moscow); Taganov, G. I. (Moscow)	
TITLE: Calculating the <u>aerodynamic forces</u> acting on bodies with separated flow regions in <u>hypersonic flows</u> . SOURCE: Inzhenernyy zhurnal, v. 3, no. 2, 1963, 215-221	
TOPIC TAGS: hypersonic separated flow, aerodynamic forces, spiked body	
ABSTRACT: A theoretical method is outlined for calculating the aerodynamic forces acting on bodies of arbitrary shape in hypersonic flows in the presence of separa- ted flow regions of given configurations. Certain assumptions are given which considerably simplify the problem of flow around spiked bodies and make it possibl to calculate forces in three different regions, i.e., a conical dead-air region, a reattachment region, and an outside region. The method is applied to the calcu- lation of lift and drag forces acting on 1) a sphere and 2) a cone, both with a spike at an angle of attack. The results, presented in graphs, show that flow separation phenomena have a great influence on the lift and drag of the sphere, particularly at a zero angle of attack, but very little on those of the cone. Orig. art. has: 7 figures and 17 formulas.	e
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AEDC/AFFTC/ASD/AFMDC Ps-4/ EPR/EPA(b)/EWT(1)/BDS/ES(v)L 18236-63 Pd-4/Pe-4 WW s/0258/63/003/003/0419/0423 ACCESSION NR: AP3006339 AUTHOR: Neyland, V. Ya. (Moscow); Taganov, G. I. (Moscow) TITLE: Forward separated flow region in nonsymmetrical supersonic flow over a spiked cone SOURCE: Inzhenerny*y zhurnal, v. 3, no. 3, 1963, 419-423 TOPIC TAGS: separated flow, hypersonic flow, hypersonic flow over cone, spiked cone, mass flow rate, laminar mixing ABSTRACT: A generalization of the method used by S. M. Bogdomoff and T. E. Vas (Hypersonic Separated Flows. Seventh Anglo-American Aeronaut. Conf., N. Y., 1959) to solve the problem of hypersonic separated flow over a spiked cone at an angle of attack other than zero is described. The flow configuration is given in Fig. 1 of the Enclosure. Coordinates of lines of intersection of a "fluid cone" (BOB') with the body and flow parameters in the laminar mixing region are determined, and an expression for mass flow rate to the stagnation region is established, and a numerical calculation of the angle of the "fluid cone" is made for various angles of attack α (0-10°) at Mach numbers 5-100. The results (given in graphs) with respect to the maximum value of the angle of attack compatible Card 1/3 ÷

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: WIAND, V.YA.: TAGADOY G.I. (Moscow)

"Superconic flow ast bodies with separation regions"

Report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow 29 Jan - 5 Feb 64.

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TUNDET, J.I. (Noscow)

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"Introvy offects in hypersonic gas flows"

Report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow 29 Jan - 5 Feb 64.

14 14 Ē Spectral Method for Determination Zavodsk. Lab. of the Thickness of Metallic <u>16(4)</u>,457 1950 U.S.S.R. Coatings by Means of the Steeloscope J.I. Taganov The method is based on the fact that the time which elapses between the beginning of the discharge reaction on the surface of the specimen and the moment when the spectrum of the base metal appears, depends upon the thickness of the coating. (Bib1.2) D.C.I.Transl., (T.T.119), 2pp. .

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Possibility of using solar energy in refrigeration engineering. Izv.AN Turk.S.S.R. no.3:13-23 '57. (MIRA 10:10)

 Institut fiziki i geofiziki Akademii nauk Turkmenskoy SSR. (Solar energy) (Refrigeration and refrigerating machinery)

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TAGANOV, K.
Studying natural circulation of glycerol in the experimental model
of a solar household refrigerator. Izv.AN Turk.SSR no.4:3-12'57.
 (MIRA 10:10)
1. Institut fiziki i geofiziki AN Turkmenskoy SSR.
 (Glycerol) (Solar engines--Electromechanical analogies)
 (Refrigeration and refrigerating machinery)

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A CONTRACTOR OF CARDON CONT

KAKABAYEV, A.; TAGANOV, K. Duration of sunshine in individual regions of Turk-snistan. Trudy fiz.-tekh. inst. AN Turk. SSR 8:49-96 '62. (MIRA 15:11) (Turkmenistan--Sunshine)

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NECHAYEVA, N.T., red.; BABAYEV, A.G., red.; RABCCHIY, I S. red., PETROV, M.P., akademik, red.; KUNIN, V.N., red.; SNIENCV, L.N., kand. geol.-miner. nauk, red.; TAGANOV, K., kand. tekhn. nauk; SOKOLOVA, L.I. kand. el.khoz. nauk, red., ARTYKOVA, T.V., red.izd-va; IVCUT.YEVA, G.A., tekhn. red.

['aterials presented at the Interrepublic Scientific Session on the Reclaiming of the Desert Areas of Central Asia and Kazakhstan] Materialy dolozhennye na Mezhrespublikanskoi nauchnoi sessii po osvoenilu pustynnykh territorii Srednei Azil i Kazakhstana. Ashkhabad, Izd-vo AN TSSR. Book 1. [Natural conditions, animal husbendry, and feed supply of the desert] Prirodnye uslovi ., zhivotnovodstvo i kormovaia baza pustyn'. 1963. 485 1. Book 2. [Land and water resources of the desert and their utilization] Zemel'novodnye resursy pustyn i ikh ispol'zovanie 1963. 178 p. (MIRA 16:11)

(Continued on next card)

APPROVED FOR RELEASE: 07/13/2001

DECHAYFVA, N.T. (continued). Card 2.

1 Mezhrespublikanskaya nauchnaya sessiya po osvoyeniyi pustynnykh territoriy Sredney Azii i Kazakhstana. Ashkhabad. 1962. 2. Akademiya nauk Turkmenskoy SSR (for Petrov. Nechayeva), 3. Institut pustyn' AN Turkmenskoy SSR (for Petrov). 4. Chlen-korrespondant AN Turkmenskoy SSR (for Kunin) (Kazakhstan--Reclamation of land--Congresses)

(Soviet Central Asia--Reclamation of land--Congresses) (Deserts--Congresses)

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\$/202/63/000/001/001/006 E202/E192

Davletov, A., Zhadan, S.Z., Taganov, K., and Tsybul'skiy, O.T. (deceased) AUTHORS :

Freon ejector of low output

TITLE:

FERIODICAL: Akademiya nauk Turkmenskoy SSR. Izvestiya. Seriya fiziko-tekhnicheskikh, khimicheskikh i geologicheskikh nauk. no.1, 1963, 6-14

A detailed analysis of the performance of a recently built solar refrigerator working on the ejector principle has been carried out. A special installation was built which permitted measuring three specific coefficients of ejection u, as functions of pressure in front of the nozzle Pp, pressure of the ejected vapor P_0 , and the counter pressure P_k . The experimental installation consisted of a gas circuit with a relatively high pressure in front of the ejector nozzle generated by a compressor 208-0.5 (2FV-6.5). A buffer capacity was arranged between the corpressor and the ejector in order to resuce pulsation. In the first series of experiments, in which two characteristics were measured, viz. $u = u(P_0)$ and $u = u(P_k)$, the manometric fluid Card 1/3

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Freon ejector of low output

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used was mercury. Since it was impossible to differentiate between the various velocity losses in the ejector due to their complex character, the total losses were expressed by means of an auxiliary coefficient determined from the expression

$$u = \varphi^{1} \sqrt{\frac{up}{u_{k}}} - 1.$$

The heat loss was calculated from the temperature entropy diagram using a specially large scale to improve the accuracy. In the second part of the experiments, when mercury was replaced by an aqueous solution of calcium chloride, in addition to the above relations, the relation between u and $u(P_p)$ was studied. It was found that after reaching the limiting value u decreased. On analyzing all the three characteristic relations - u = $u(P_o)$; $u = u(P_k)$ and $u = u(P_p)$ it was noticed that the first one, after achieving sonic conditions, continued to increase but at a slower rate; the second remained constant while the third decreased. The velocity loss coefficients behaved in a similar way. Card 2/3

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EPR/EPF(c)/EPF(n)=2/BDS/EWT(1)/EWT(m) AFFTC/ASD/SSD Ps=4/21-4 RM/WW Taganov, K., Candidate of Technical Sciences; Il'yasov, Kh. Engineer AUTHOR: Heat transfer with freon-12 boiling in a heliorefrigerating plant TITLE: vol, 10 Kholodil'naya tekhnika, 1 no. 2, 1963, 4-7 PERIODICAL: The authors obtained an empirical formula for calculating the heat TEXT: transfer coefficient of freon-12 boiling in an inclined tube. The formula \varkappa = 4.48 q^{0.646} was derived from the graph in Figure 3 of enclosure 1. The effect of the velocity of freon upon the boiling process is characterized by the formular derived from graph in Figure 4 of enclosure 2: $\alpha = (Gq)^{0.32}/d$. The experimental values of heat transfer coefficient are 1.5 to 2 times higher than those computed according to formulas obtained by Kruzhinin, Kutateladze and Tolubinskiy [Abstracter's note: Works of above authors are listed in bibliography]. These comparisons are shown in Figure 3 of enclosure 1. A diagram of the apparatus used in the experiments is shown in Figure 1 of enclosure 3. The results of the study indicate that freon jets are suitable for use in heli.orefrigerating plants with relatively high temperatures in the evaporator (above 0° C) and at a boiling point in the producer exceeding 70° C. The article has 4 figures and a table containing Association: Physics and Engineering Inst. of the Academy of Sciences of the Turknenskaya SSR

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EPR/EPF(c)/EPF(n)-2/BDS/EWT(1)/EWT rm/ww •µ/Рі Taganov, K., Candidate of Technical Sciences; Il'yasov, Kh. Engineer AUTHOR: Heat transfer with freon-12 boiling in a heliorefrigerating plant TITLE: Kholodil'naya tekhnika, no. 2, 1963, 4-7 PERIODICAL: The authors obtained an empirical formula for calculating the heat TEXT: transfer coefficient of freon-12 boiling in an inclined tube. The formula $\alpha =$ 4.48 q^{0.646} was derived from the graph in Figure 3 of enclosure 1. The effect of the velocity of freen upon the boiling process is characterized by the formular derived from graph in Figure 4 of enclosure 2: $\propto = (Gq)^{0.32}/d$. The experimental values of heat transfer coefficient are 1.5 to 2 times higher than those computed according to formulas obtained by Kruzhinin, Kutateladze and Tolubinskiy [Abstracter's note: Works of above authors are listed in bibliography]. These comparisons are shown in Figure 3 of enclosure 1. A diagram of the apparatus used in the experiments is shown in Figure 1 of enclosure 3. The results of the study indicate that freon jets are suitable for use in heliorefrigerating plants with relatively high temperatures in the evaporator (above 0° C) and at a boiling point in the producer exceeding 70° C. The article has 4 figures and a table containing Association: Physics and Engineering Inst. of the Academy of Sciences of Card 1/5, the Turkmenskaya SSR

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"Electric Spark Transference in Spectrum Analys K. I. Taganov, 6 pp	is,"	
"Priroda" No 3		
Every electrical discharge between two current ducting electrodes is accompanied by transfer of	ſ	
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ducting electrodes is accompanied by transfer of material from one electrode to other. Author d scribes importance of this fact in spectrum and particularly in stylograph.	f e-	
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US: A/Geological Prospecting Petroleum Deposits

"The Problem Concerning the Paragenesis of Titanium Organic Carbon, and Several Other Elements," L. V. Khmelevskaya, N. G. Morozova, K. I. Taganov, S. M. Katchenkov, L. A. Voytsekhovich, All-Union Petroleum Sci Res Geol Prospecting Inst, 3 pp

"Dok Ak Nauk SSSR" Vol LXIII, No 6

Spectrographic and statistical malysis of 87 sandstones taken from Maykopskiy, Chokrakskiy, Karaganskiy, and Sarmatskiy deposits in the layer of oilbearing deposits of Proznenskiy Rayon, Terskiy Oblast. Found that presence of organic carbon, vanadium, manganese, titanium, nickel, barium and strontium in various lithologic groups -sand-silt-stone, clay, and carbon -- was not connected exclusively with any of them. Submitted by Acad D. S. Belyankin, 27 Oct 18.

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	"Spectrum Method Metal Plating Wi State Opt Inst,	for Determining th a Steeloscope, 2 pp	the Thickness of 'K, I, Taganov,		
	"Zavod Lab" Vol	XVI, No 4			
	Develops method beginning of dis article to appea Method also perm method also perm	based on measurin scharge action on arance of base me nits evaluation of ution resulting in	ng time elapsed from surface of plated cal spectrum, cuniformity of n rapid overating		
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BOGDANOVA, V.T., inzh.; TITOVA, N.A., inzh.; TACANOV, K.I., kand. fiz.-mat.nauk; TYUMENEVA, S.T., inzh., red.; PROKOF'YEV, V.K., prof., doktor fiz.-mat.nauk, laureat Stalinskoy premii, otv.red.; FREGER, D.P., tekhn.red.

> [Spectral analysis of steels with an alternating-current arc] Spektral'nyi analiz stalei s dugoi peremennogo toka. Leningrad, 1952. 3 p. (Informatsionno-tekhnicheskii listok, no.101 (442)) (MIRA 14:6)

1. Leningradskiy Dom nauchno-tekhnicheskoy propagandy. (Steel--Spectra)

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ard 1/1		Pub. 43 - 96/97	
uthors	:	Taganov, K. I.	
Litle	:	Contact electro-spark sampling for spectral analysis	
Periodical	:	Izv. AN SSSR. Ser. fiz. 18/2, page 299, Mar-Apr 1954	· · · · · · · · · · · · · · · · · · ·
bstract	:	A method was developed for electro-spark sampling during spectral analysis. The structural characteristics of such a sampling arrange- ment are described. Some results obtained through contact electro- spark sampling are listed.	•
ibstract Institution	:	analysis. The structural characteristics of such a sampling arrangement are described. Some results obtained through contact electro-	
	:	analysis. The structural characteristics of such a sampling arrangement are described. Some results obtained through contact electro-	
nstitution	:	analysis. The structural characteristics of such a sampling arrangement are described. Some results obtained through contact electro-	
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Institution	:	analysis. The structural characteristics of such a sampling arrangement are described. Some results obtained through contact electro-	

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1217. The spectrographic analysis of complex steels with an alternating ourrent arc. V. T. Bogdanova and K. I. Taganov. Report of Sym-posium: "Sovrem. Metrody Anal. Metall., M. Metallurgizdat," 1965, 61-64; Ref. Zhur. Khim., 1956, Abstr. No. 29,375.—A method is described for the analysis of steels EZh I and EZh 2 for Cr. Ni, Mn and Si, and of steel EYa 1T for these ele-ments and Tl. Tha samples, of diam. 35 mm and height 110 mm, arc cast in a metal mould. A copper rod serves as upper electrode, sharpened to a truncated cone; the arc gap is 2 mm. It is observed that there is a difference in composition between the main mass of metal in the sample and the outer zone; the samples are therefore treated with emery to a depth of 2 to 3 mm. Results are calculated by means of a conversion factor. The results are averaged from five spectra. The calculation of the concn. is taken from previously prepared tables. The lines used are—for EYa 1T and EZh, Cr 2809.20. Fe 2089.21; Mn 2939.30. Fe 2041.34; Si 2516.12 - Fe 2018.10; for EYa 1T and EZh, Ni 3402.00 - Fe 3405.29 A. The relative probable errors af the determinations of the various elements are within 0.6 to 6%. C. D. KOPKIN 第二日 おう

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R TAGANOV, T. 8502. Production of spectra by an electrical dis-charge in a liquid medium. N. S. Sventitakii and K. I. Taganov. Izv. Akad. Nauk SSSR, Ser. Fis., 1955, IB (1), 77; Ref. Zhur., Khim., 1959, Abstr. No. 10,065.—By using a low-voltage impulse rate it is discharge in air and to obtain a line spectrum discharge in air and to obtain a line spectrum, useful in emission spectrum analysis. Taking as an example the determination of Zn in brass, the influence of a third element (silicon) is greatly reduced when the discharge takes place under a layer of CCl. Discharge in a liquid medium is favourable to spectrum-line control. R. LORD 고 (대 율)의

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* ILES

MAL'TSEV, M.G.; TAGANOV, K.I.

Contact electric spark assaying in the spectrum analysis of metals. Izv.AN SSSR.Ser.fiz.19 no.2:205-206 Mr-Ap '55. (Tartu-Spectrum analysis--Congresses) (MLRA 9:1)

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State of the second state of the second states and the second stat TAGANOV, K.I Vuse of contact Electric Spark Method for Taking Samples for Spectroscopic Analysis' M. F. Mal'isov and K. I. Toranov. (Zavodkaya Laboratoriya, 1956, 22, (2), 101-104). [In Russian]. The advantages of the electric spark method of sampling metals with the electrode in contact with the surface over that in which metal transfer occurs over a spark gap are briefly discussed, and apparatus and results for the former are described. Details are given of an easily portable installation, for which two types of sampling head are available for taking samples while moving over the surface or while fixed. The lattor is suitable for determining the thickness and composition of metallic coatings. Spectro-scopic results for various steply and for grey in the discussed. - PG

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giants inte	Trenti-ikip. H.J., Tekhenko, H.A., Galenov, P.F., Falillyr,F., Algatov, M.J., and Taganov, K.I.
.Thatichting:	
7.151 	Spectral Letermination of Hitrogen, Hydrogen, and Onggen in Titanium and Its Albers
	Javed. Jaberateriya, 1956, Vol. 22, No. 6, 666-673
Abstract :	The determination of N, 0, and H in Ti alloys and of H in Ti Fowder is described. The determinations were made with a type ISP-51 spec- trograph (with a camera of $f = 270$ mm for H and G and a type UF 85 easers of $f = 1,300$ mm for H); type III spectoscopic plates wer shows and f and type 250 decorport diamdard patch resting fill of solution H
	the solution of the second states of enditable with the low-woltage is the solution of the solution of the first method gave the best results with N,
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THE REPORT OF THE PARTY OF THE terri e conquestre conqueste Abot J ucial: Suferat Class - Minima, No.1, 1957, 1264 Abstract: while the last method was found most effective for 6 and H. 11 and 6 were determind in an atmosphere of belium (700 and 500 mm Hg, respectively), while H was determined in air. For standards cast sauples of Ti were used the N content of which had been determined obemically, and the 0 and H content -- by hot extraction. The following slit widths were used: 0.015 mm for H, 0.02 mm for C, and With the second was used for I with the Wellewing pairs: HII 3684, 185 A and Til Mig, 154 A and Til 3684, the L. It analy is for 0 the relative insensity of the lines of I 47.5. 32 and CII 4396, 13 A and of the background was determined. In the case of H the darkening of the Line H 6563 A was Measured. The error in the determination of N is \$ 25%; of 0, \$220-40% (as the energy of the discharge is increased, the intensity of the O-lines at first increases and then begins to drop off); and for H, 56.83 for heat treated samples and 115-5% for samples which have not been heat treated. For the determination of H is powdered Ti Uniquetted stanten ist add maas. Stanieri het pletted meiljos most foom titenium to tride as i chi powder. The error is in -1964.

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TAGANOY K.I. 66354 sov/81-59-19-67720 Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 19, p 124 (USSR) Prokof'yev, V.K., Sventitskiy, N.S., Taganov, K.I. The Spectral Analysis of Uranium and Its Compounds for Admixtures by AUTHORS: Means of Diffusion-Convection Transfer TITLE: Fiz. sb. L'vovsk. un-t, 1958, Nr 4(9), pp 42 - 44 For eliminating the superpositions of the U spectrum and the intense PERIODICAL: continuous background it has been proposed to divide in time the processes of separation of admixtures and the excitation of their spectra. This is ABSTRACT: obtained by a preliminary transfer of the admixtures to a supporting graphite electrode. The second graphite electrode containing an uranium sample which has been preliminarily calcined and converted to U_30_8 is heated by an auxiliary d-c current. The electrode with the sample serves as anode; two carbon cathodes are installed symmetrically perpendicularly to it. At the burning of the auxiliary arc the fractionating admixtures are transferred to the supporting upper electrode and the non-volatile $U_{3}O_{8}$ remains in the channel of the lower electrode. This transfer, in distinction from the electro-spark transfer, is termed diffusion-convection Card 1/2ULCSKIY

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754710015-0*

SVENTITSKIY, N.S.: TAGANOV, K.I.

- Some investigations of the spectral determination of hydrogen in metals. Fiz.shor. no.4:209-212 '58. (MIRA 12:5)
- 1. Gosudarstvennyy ordena Lenina opticheskiy institut imeni S.I.Vavilova.

(Metals--Hydrogen content) (Spectrum analysis)

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SVENTITSKIY, N.S.; SUKHENKO, K.A.; FAL'KOVA, O.B.; GALONOV, P.P.; TAGANOV, K.I.; ALPATOV, M.S.

> Spectrum analysis of titanium, molybdenum, and their alloys for nitrogen, hydrogen, and oxygen. Fiz.sbor. no.4:225-231 '58. (MIRA 12:5)

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MAL'TSEV, M.G.; PTITSYNA, Ye.A.; TAGANOV, K.I.

Some physical characteristics of the contact-electric spark selection of a sample for spectrum analysis. Fiz.sbor. no.4:252-255 '58. (MIRA 12:5)

1. Gosudarstvennyy ordena Lenina opticheskiy institut imeni S.I.Vavilova.

(Spectrum analysis)

APPROVED FOR RELEASE: 07/13/2001

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BORRAT, A.M.; MAL'TERV, M.G.; TAGANOV, K.I. Effect of a third component in spectrum analysis with electric soloction of samples. Fiz.sbor. no.4:255-257 '58. (MIRA 12:5) 1. Gosudarstvennyy ordena Lenina opticheskiy institut imeni S.I.Vavilova. (Spectrum analysis)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754710015-0



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66352 sov/81-59-19-67683 18.8400, 5.5310 Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 19, p 117 (USSR) Sventitskiy, N.S., Taganov, K.I. AUTHORS: Some Investigations on the Spectral Determination of Hydrogen in Metals TITLE: Fiz. sb. L'vovsk. un-t, 1958, Nr 4(9), pp 209 - 212 PERIODICAL: The conditions have been studied for changes in the concentration sensitivity (CS) of the spectral determination of H in metals at the ABSTRACT: excitation of the spectrum by a low-voltage pulse discharge. It has been established that the value of CS has a maximum at 100 inenry. An increase in the ohmic resistance sharply reduces CS which at 6 ohms vanishes completely. An increase in the charge voltage of the capacitor from 100 to 200 v increases CS; an increase in the capacitance of the discharge circuit from 300 to 1,000 μ farad increases it two times. At high contents of H, in the measuring of the complete intensity of ${\rm H}_{\alpha}$ based on the area of the contour, CS is by 50% higher than in the comparison of the intensities based on the maxima. The possibility is considered of reproducing various intensities of H-lines according to artificial samples, which an equivalent H content can be given in Card 1/2

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66352 SOV/81-59-19-67683

Some Invesitgations on the Spectral Determination of Hydrogen in Metals

calibration for plotting calibration graphs. Solutions of colophony in ethanol and celluloid in acetone proved to be the most suitable for this purpose. A proportioned quantity of solution applied onto a Cu-electrode produces a film which during evaporation in the flame of a pulse discharge shows a certain intensity of the H-line. Equivalent concentrations of 8 - 100 ml per 100 g established by means of these films are reproduced with a mean error of 10%. When electrical parameters of the discharge circuit are maintained, the curve of the H $_{\alpha}$ contour is reproduced sufficiently well and can serve as a peculiar calibration graph, if equivalent H concentrations are quencies, wavelengths or the divisions of the scale of the microphotometer carriage). It is also expedient to make calibration by the width of the H line which is very great at the selected excitation conditions. In this case the H $_{\alpha}$ profile which was obtained in the blackenings can be made use of.

N. Sventitskiy

Card 2/2

APPROVED FOR RELEASE: 07/13/2001

TAGANOV, K.I. Physical characteristics of spectrum analysis with test sample selection by electric discharges. Inzh.-fiz.zhur. no.7:54-60 Jl '58. (MIRA 11:8) (Spectrum analysis) (Mass transfer)

APPROVED FOR RELEASE: 07/13/2001

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24(7) AUTHORS: TITLE:	SOV/43-23-9-19/57 Sventitskiy, M. S., Taganov, K. I. On Spectroscopic Investigations of the Electro-erosional Properties of Oxygen-containing Titanium
FERIODICAL:	Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959; Vol 23, Nr 9, pp 1096-1097 (USSR)
ABSTRACT :	The investigation of the electroerosive distortion of metals and alloys may be carried out either directly from the dis- charge spectrum as also from the spectrum of the transfer products which settle on the carrier electrode. The authors investigated titanium containing 0.12 to 2.32% O. In both cases it was, bowever, possible to estimate the erosion of the samples according to the line intensity of titanium. In the case of a lack of contacts between the electrodes in the spark and in the alternating current arc, a reduction of trans- spark and in the alternating current arc, a reduction of trans- spark discharges was observed. However, in the case of contact spark discharges an intensification of transfer is observed in titanium with an intensification of transfer is observed in titanium with an increase in the oxygen content, which reduces the resistivity to erosion. From the relation between the intensity of the
Card $1/2$	titation can normally be evaluated, but here the possibility

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SOV/48-23-9-19/57 On Spectroscopic Investigations of the Electro-erosional Properties of Oxygen-containing Titanium offers itself spectroscopically evaluating the physico-chemical properties of titanium from its electroerosive behavior. Experiments were carried out for the purpose of evaluating the influence exercised by polarity in contact spark discharges upon the titanium transfer to the carrying copper electrode

in air and in carbon tetrachloride. The ratio between the line intensities of titanium of the transfer products from the cathode and those from the anode I_{1} amounted to 0.8 in air for 0.12% 0, and to 0.5 for 2.32% 0. In carbon tetra-

chloride the corresponding values were 2.0 and 1.6 respectively. Thus, the destruction in air is greater on the anode, and in carbon tetrachloride in the cathode. If the sample contains calcium, this effect is exactly reversed. Moreover, the possibility arises of investigating oxygen-containing titanium as to its thermoelectrical properties spectroscopically, as a linear dependence between the oxygen content of titanium and its thermo-current exists.

Card 2/2

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CIA-RDP86-00513R001754710015-0

\$07/48-23-9-20/57 24(7)AUTHOR: Taganov, K. I. Some Spectroscopical Investigations of the Effect of Polarity TITLE: Erosion of Metals on the Electric Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, PERIODICAL: Vol 23, Nr 9, pp 1097-1099 (USSR) In the case of a variation of discharge parameters an inversion ABSTRACT: of electric erosion and thus a change of sign in the polarity effect may occur. It has already previously been shown by the author that a variation of the electrode gap may lead to such an inversion (Ref 1). In the present paper several new factors influencing the polarity effect are investigated. Evaluation of this effect was carried out by determining the ratio of the line intensities of the products removed from the anode and cathode respectively (I_{\perp}/I_{\perp}) . The transfer of zinc, iron, and molybdenum in low-voltage pulsed discharges was investigated and differences in the quantitative variation of the transfer from cathcde and anode were found to occur in the case of changes in the discharge parameters. An increase of the electrode gap in all cases led to a decrease of the transfer, especially from the anode. Much interest is displayed Card 1/2for the variations of transfer depending upon polarity in

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Some Spectroscopical Investigations of the Effect of Polarity on the Electric Erosion of Metals

pulsed discharges when the discharge is localized on the metal surface, and in this case an essential difference in the transfer from cathode and anode was found to exist. The localization of the discharge causes a considerable increase of the transfer from the anode, and here an inversion of the polarity effect may already be observed. A spectroscopical investigation of the polarity effect in the case of contactspark erosion on the transfer showed that processes developing in the contact zone of two heterogeneous metals play the main part. When explaining the described rules, the author describes the Feltier heat occurring in the discharge as being responsible for the inversion. In conclusion, the interrelation between the spectroscopically estimated amount of the contact-electrical spark erosion and the thermoelectrical characteristics of the contacting metals is dealt with. In a number of cases a direct interrelation between the amount of the thermo-current and the concentration of one or the other element could be proved to exist. There are 2 Soviet references.

Card 2/2

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C:(T) Authors:	SCV/48-25-9-30/57 Eventitskiy, N. S., Taganov, K. I., Shlepkova, Z. I.
211LE:	Some Characteristic Features of the Spectroscopical Deter- mination of Oxygen in Titanium
PERIOLICAL:	Izvestiya Akademii nauk SSSR. Serija fizicheskaya, 1959, Vol 23, Nr 9, pp 1118 - 1120 (USSR)
ABSTRACT:	In the introduction the low degree of dependence of line in- tensities on oxygen concentration in titanium is pointed out. The extraction of oxygen and following spectral analysis of the gas mixture would be a more exact method, but this re- quires the application of platinum troughs and the develop- ment of analysis methods in which it is possible to carry out extraction of the gases and excitation of their spectra simultaneously. The low concentration-sensitivity in titanium is assumed to be due to the stability of the titanium oxides which are already present in the alloys or are formed during the cuscharge. For the purpose of checking the correctness of this assumption, experiments were made with copper powder con- taining TiO ₂ in a concentration of $0.5-5\%$, and by using various
Card 1/3	light sources. The experiments showed that the highest intensity

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CIA-RDP86-00513R001754710015-0

Some Characteristic Features of the Spectroscopical SCV/98-23-9-30/97 Determination of Cxygen in Titanium

ratio I_{TIII}/I_{CuII} is obtained by pulsed discharges, Similar

experiments were carried out with $2rC_2$, and it could be seen from both results that in the case of pulsed discharges and of sparks, the bound oxygen must enter into the discharge cloud of the light source. Experiments on metallic titanium having an oxygen content of 0.33 - 0.60% are then discussed, which were carried out with palsed discharges and high-frequency sparks. Again, the line intensities were found to depend only little on the oxygen content. Experiments carried out on technical titanium containing 0.12- 2% oxygen showed a considerable decrease of the concentration sensitivity of the lines. Comparative investigations were carried out on samples with calcium, the Ca-concentration of which varied within the range of 0.30 - 0.48% parallel to that of oxygen. It was found that after high-frequency sparks had been acting for four minutes in hydrogen at normal pressure, the line intensity and the concentration sensitivity increase considerably. Finally, it is found that the exygen spectrum is sufficiently well excited by pulsed discharges and other light sources, and that the

Card 2/3

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CIA-RDP86-00513R001754710015-0

Some Characteristic Features of the Spectrosoppisal SOV/_8-25-9-50/57 Determination of Cxygen in Titahium oxygen contained in metallic titanium has only a low degree of concentration sensitivity. Concentration sensitivity may be increased by a reduction of the energy of the excitation pulses, It is assumed that the major part of the oxygen contained in metallic titanium forms oxides on the surface of the electrodes and does not enter into the discharge cloud. There are 2 tables and 5 references, 2 of which are Soviet.

Card 3/3

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TAGANOV, Konstantin Ivanovich; TYUMENEVA, S.T., red.; FREGER, D.P., izd.red.; HELOGUROVA, I.A., tokhn.red.

> [Spectrum analysis - a progressive physical method of research and control; on the hundredth anniversary of its discovery] Spektral'nyi analiz - progressivnyi fizicheskii metod issledovaniia i kontrolia; k stoletiiu otkrytiia spektral'nogo analiza. Leningrad, 1960. 23 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Seriia: Kontrol' kachestva produktsii. vyp.3) (MIRA 14:3)

> > (Spectrum analysis)

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TACIYEV, M.A., aspirant

Use of ascorbic acid in the treatment of thyrotoxicosis and the condition of the oxidation-reduction process. Azerb.med.zhur. no.2:51-56 F '60. (MIRA 13:5)

1. Iz 1-y fakul'tetskoy terapevticheskoy kliniki (zav. - zasluzh. deyatel' nauki, prof. I.M. Orudzhev) i kafedry biokhimii (zav. zasluzhennyy deyatel' nauki, prof. A.S. Gasanov) Azgosmedinstituta imeni N. Narimanova.

(ASCORBIC ACID) (THYROID GLAND--DISEASES) (OXIDATION, PHYSIOLOGICAL)

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SOV/6181

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Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960. Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR. Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results.
COVERAGE: The collection presents theoretical and practical problems of the application of atomic and molecular spectral analytical for ferrous and nonferrous metallurgy, geology, chemical industry, and medicine. The authors express their thanks to G. V. Chentsova for help in preparing the materials for the press. References follow the individual articles.

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c.	Materials of the Third Ural Conference (Cont.)	SOV/6181		
	Buravley, Yu. M., M. A. Perepelkina, G. P. Neuymina, and G. I. Maramygina. Investigation of the effect of structure on the results of spectral analyses of cast iron			
		62		
	Bobrov, V. A., Ye. N. Chernoguz, and T. N. Yaroslavova. Application of "fractional exposure" method for spectral analysis of alloy cast irons and aluminum alloys	66		
	Matyugina, I. V. Spectral analysis of silicon brasses by the calculated graph method	67		-
	Obukhova, Ye. S., and N. K. Rudnevskiy. Application of electrotransfer in plotting calibration graphs according to a single standard in the spectral analysis of alloys	68		
	Taganov, K. I. Spectroscopic investigation of features of contact-electrospark erosion of metals and alloys	70		
	Card 6/15			
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5/048/62/026/007/004/030 B104/B138

Taganov, K. I. _UTHOR: Spectroscopic study of the erosive properties of an TITLE: electric discharge in vacuo v. 26, no. 7, 1962, 860-862 TEXT: The erosion of Fe, Cu, Ti, and Al alloys in a d-c contact discharge was studied at $7 \cdot 10^{-3}$ mm Hg, with a reciprocating upper electrode. The quantity of material transported during discharge was ascessed from the intensity of the phosphorus and silicon lines. It was found that I_{I} , i. e., material was mainly removed from the cathode. According to the spectral lines of the base material $I_{I_{+}}$ for titanius alloys = 25. The lines of the cathode material were Particularly intense in the discharge spectrum. A process similar to that of cathode sputtering is thought to occur at the cathode: there are nc signe of local thermal action and the entire cathode surface has a Card 1/2

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CIA-RDP86-00513R001754710015-0

5/045/62/026/007/004/030 Spectroscopic study of the erosive ... B104/B138 dull tinge. The usual erosion track is formed on the anode. Erosion in contact discharges in the air is compared and differences discussed. It was found on various alloys that I_{+}/I_{+} may be less than unity. The ling intensities were found to depend on the polarization of the electrode and on the thermoelectric properties of the electrode metals. There are 3 figures. Card 2/2

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TAGANOV, N.I.

PROPERTY AND A DESCRIPTION OF A DESCRIPR

Obtaining the calculations of equations on the basis of varying units of measurement. Zhur.prikl.khim. 35 no.10:2262-2266 0 '62. (MIRA 15:12)

(Chemical equations)

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CIA-RDP86-00513R001754710015-0

S/048/63/027/001/001/043 B163/B180

AUTHORU:

Baskov, V. S., Berger, S. I., Mal'tsev, M. G., Pallacin, M. N. and Taganov, K. I.

919act

New data on spectroscopic analysis with preliminary material transfer by contact-electric-spark treatment

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizioneskayu, v. 27, no. 1, 1963, 2-3

TEXT: The absolute sensitivity of the spectroscopic analysis of metals and alloys can be increased by a preliminary spark treatment, in some cases due to selective transfer of the components. It is shown how the intensity of the Mg lines in spheroidal-graphite cast iron and Pb lines in the alloy "Al'kusip" is enhanced. Another way of increasing sensitivity is to activate the sampling process by first depositing a suitable catalyst on the surface of the specimen. For example, if Ti alloys are activated in a cadmium electrode discharge or by immersion in a cadmium enloride solution, the spectrum intensity increases 4 to 5 times. The spectra of small Si, Mn, and Fe impurities can then be recorded Card 1/2

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New data on spectroscopic analysis ...

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simultaneously instead of the usual method which requires separate determination of Si in an arc discharge. The spectrum of a specimen sampled by electric discharge can usually be recorded without heating the transfer products, but the intensity ratios may vary with time. Sampling by electric spark treatment can be further improved by using single discharge pulses, which helps to keep the composition of the transfer products constant and exclude the effect of other components. The circuit diagram is given, for an electric spark sampler without vibrational the discharge is initiated by a periodically discharging capacitor in a spark circuit. This paper was presented at the 14th Conference on Spectroscopy in Gor'kiy, July 5-12, 1961. There are 3 figures.

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S/048/63/027/001/003/043 B163/B180

Obukhova, Ye. S., Rudnevskiy, N. K., and Taganov, K. I. Electric discharge sampling for the calibration in the AUTHORS: spectral analysis of metals and alloys TITLE: Seriya fizicheskaya, v. 27, PERIODICAL: Akademiya nauk SSSR. Izvestiya. MEXT: I, the intensity of a spectral line depends on c the concentration , no. 1, 1963, 6-7 of the component to be determined and on the mass consumed in the light source, which is itself dependent on the discharge current, electrode Source, which is itself dependent on the discharge ourtens, electrode distance d, and transfer time. In intensity measurements of the PI 2535,65 A line from binary Cu-P alloys with 0.67 - 1.33% P, and i the current in the transfer arc discharge from 2 - 8a, log I was found to be a linear function of log c I^{P} with P = 1.3. For constant i, log I was a linear function of log c d^P with negative P. In similar experiments with a Cu - Ni alloy S, the optical density of the Ni I 3050. 8 A line was measured for Ni concentrations of 7.43 - 29.14% and varying T, the Caro 1/2

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GUDKOVA, K.V.; TAGANOV, K.I.; SHLEPKOVA, Z.I.

New possibilities for the spectral analysis of metals and alloys using a preliminary dosage by contact-spark discharge. Trudy po khim.i khim. tekh. no.l:26-30 '63. (MIRA 17:12)

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ZAGORSKAYA, M.N.; TAGANOV, K.I.

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Particularities in the manifestation of the polarity effect in the spectral analysis of metals and alloys. Trudy po khim.i khim.tekh. (MIRA 17:12) no.1:31-36 '63.

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CIA-RDP86-00513R001754710015-0

BORZOV, Vaciliy Pavlovich; TAGANOV, Konstantin Ivanelic; KAPORSKIY, L.N., red. [Using photoelectric devices in spectrum analysis] Ispol'zovanie fotoelektricheskikh priborov pri spektral'nos (HIRA 18:5) analize. Leningrad, 1965. 26 p.

15960-66 EWT(1)	
CC NR: AP6001483 SOURCE CODE: UR/0368/65/003/006/	0563/0566
UTHOR: Silin', E. A.; Taganov, K. I.	3/
RG: None	\sim
ITLE: The evaporation mechanism of small quantities of matter in speci ight sources	tral
OURCE: Zhurnal prikladnoy spektroskopii, v. 3, no. 6, 1965, 563-566	
OPIC TAGS: spectrophotographic analysis, light source, evaporation, spine	pectral
21, 44, 55 BSTRACT: In <u>spectral analysis</u> of samples with limited mass, the intens pectral lines varies with time. Many authors investigating the kinetic	sity of
ration of small amounts of matter established various kinds of analytic	cal re-
ationships. The present paper presents the results of experimental inv nich seem to be in good agreement with the theoretically derived expres	vestigations
= Ax exp $(-\beta t) \cdot \frac{1}{1}$ - exp $(-\sqrt{t}) \cdot \frac{1}{2}$ similar to an expression proposed e	ssion earlier
A. G. Nepokoychitskiy and A A Yankovskiy (Vestsi An BSSR, ser. fiz	-tekhn.
avuk, No. 3, 124, 1963; DAN BSSR, 7, 814, 1963). The mean square devia	ation of the
neoretical from the experimental values, for the various cases, is with urd 1/2 UDC: 543.42	nin 2—107.

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E 15960-66 ACC NR: AP6001483 0 Coefficients A, p, and q are directly related to evaporation conditions in the light source. The theoretical curves can be used successfully for the investigation of the influence of various parameters (voltage, polarity, current pulse duration, etc.) on the contact spark transfer of matter, and of the physical processes in spectral light sources. Orig. art. has: 3 formulas, 2 figures, and 2 tables. SUB CODE: 07 / SUBM DATE: 23Mar65 / ORIG REF: 010 bvk · Card 2/2

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ACC NR: AP60233			10 mm = 147 mV
ACC INA: APOUZO	300	SOURCE CODE: UR/0237/66/000/007,	/0011/0012 1/
AUTHOR: Taganov	v, K. I.; Faynberg, L.	. <u> </u>	41
ORG: none			
SITLE: Determin Action of a lase	nation of <u>coating</u> thic er with a substance	ckness from flash spectra resulting fr	rom the inter-
SOURCE: Optiko-	-mekhanicheskaya promy	yshlennost', no. 7, 1966, 11-12	
TOPIC TAGS: las	er application, nicke	el plate, metal coating, spectrographi	ic camera
ings of copper (were 0.1-4.5 µ 1 banchromatic fil woodymium glass. to depend on the spectral lines e concentration of bands on the loc wurface. With c	3-20 μ), nickel (3-25 ayers of vacuum-depos m with an ISP-28 spec The spectral line i quantity of substanc exhibit self-reversal, substance in the pla ation of the focal po chrome-plated brass th	40 μ chrome plating on brass and three 5 μ), and chromium (1-6 μ) on steel. sited aluminum on glass. Spectra were ctrograph and single laser flashes of intensity of the coatings was found in ce evaporated by the laser flash. Man , and such lines often are more sensit asma of the flash. The flash spectrum oint of the laser light with respect the self-reversal of the 327.4 and 324. thickness of the coating increases.	Also tested e taken on 10 joules on a all cases by of the tive to the also de- to the target .75 mu cop-
Card 1/2		UDC: 543.42 : 621.378.9	
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ACC NR: AP6023366				/
creases when the beam layers on steel are al	olds when the beam is focus is focused below. Time sca so sensitive to layer thick ting thickness. The same h	ins were also made. mess. The spectru	. Spectra o m of the ba	f triple sis
SUB CODE: 20,11/	SUBM DATE: 08Jul65/	ORIG REF: 005	/ ATD PRESS	:5056,
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CIA-RDP86-00513R001754710015-0

ROMANKOV, P.G.; TAGANOV, N.I. "Gas cooling in scrubbers". N.N.Egorov. Reviewed by P.G.Romankov, N. I. Warney Thur prict thim 20 no 2:319-320 F 156. (MLRA 9:6)

N.I.Taganov. Zhur.prikl.khim. 29 no.2:319-320 F '56. (MLRA 9:6) (Scrubber (Chemical technology)) (Egorov, N.N.)

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A START STATEMENT AND STATE

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	sov/184-59-5-4/17
	Taganov, N.I., Michalev, M.F., Candidates of Technical Sciences
AUTHORS:	Taganov, N.I., History Thrust Forces of Rollers Depending on the Softness and Recovery Thrust Forces of Rollers During Their Mastication
11111	Properties of Rubber During mode
	Whimtobeskove mashinostroeniye, 1959, Nr. 5, PF. 10-11 (USSR)
PERIODICAL:	
	Using the theory of similitude and the dimensional unique of obtaining processing experimental data is the only reliable method of obtaining equations for determining the thrust forces arising in the roller contact areas during the <u>rubber</u> mastication process. Formulas for calculating these thrust forces are given. They are based on the graphoanalytic processing of experimental data and the limits of their applicability are indicated. The experimental investigation was carried out on a laboratory test installation of the Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Institute of Technology imeni Lensovet). The rollers used were 450 mm long and 200 mm in diameter. Factors affecting the magnitude of the thrust forces varied within the following limits; gap - 0.6-2.0 mm; speed - 6.28-18.9 m/min; ratio of the peripheral speeds of the rollers - 1.0-3.0; rubber band width - 150-400 mm; charge 350-1,800 g; initial plasticity of rubbers - 0.06-0.15; duration of
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SOV/184-59-5-4/17

Thrust Forces of Rollers Depending on the Softness and Recovery Properties of Rubber During Their Mastication

> mastication - 7-40 minutes. Under all processing conditions the temperature of the rollers was $45\pm5^{\circ}$ C, while that of the rubber was $80\pm5^{\circ}$ C. The following rubber grades were used for the experiments: C "CKH -40" (SKN-40) (specific gravity 986) and "CKH-26" (SKN-26) (specific gravity 962) <u>butadiene nitryl</u> rubber: "CKC -30 (SKS-30) (specific gravity 944) and "CKC-10" (SKS-10) (specific gravity 912), <u>butadiene-styrol</u> rubber; natural "smcked sheet" rubber (specific gravity 930). For demonstrating the practical use of the equations obtained, the authors compiled in a table the results of calculating the thrust forces of " Π_{A} -2130C" (Pd-2130S) rollers (660 mm diameter; 2130 mm long; 1 mm gap) during the mastication of the aforementioned rubber grades. There are 2 graphs and 1 table.

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TAGANOV, H.I.

On the theory of computations of chemical apparatus. Zhur. prikl. khim. 33 no.8:1813-1818 Ag '60. (MIRA 13:9) (Chemical apparatus) (Chemistry, Physical and theoretical)

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ACCESSION NR: AP50	P(j)/T RPL WW/DJ/RM D26432 SOURCE CODE: UR/0153/65/ 44/55 $44/55$	/008/004/0691/0695	
AUTHOR: Shchuplyak,	44,55 1. A.; Taganov, N. I.; Kirillov, V.	N. T	\tilde{z}
OPC: Dementer and of 1			:
Technological Institute	fachines and Instruments for the Chemica im. Lensovet (Kaledra mashin i apparat	al Industries, Leningrad ov khimicheskikh proizvod-	
stv, Leningradskiy tek	hnologicheskiy institut)	~	
TITLE: Study of the se	ealing capacity of gaskets from polymeric	c materials W	
SOURCE: IVUZ. Khim	iya i khimicheskaya tekhnologiya, v. 8,	no. 4, 1965, 691-695	
TOPIC TAGS: hermeti	ic seal, polyvinyl chloride, polyethylene,	polytetrafluoroethylene	
polymer gaskets Wefe' The investigated mater (VTU MKhP 4138-55);	itions under which the tightness of flange studied experimentally by using a special ials were <u>polytetrafluoroethylene</u> (VTU M and gasket <u>PVC plasticized resin</u> (VTU M the experimental data yielded an equation of	stand with an oil pump,5 A-172-54) ⁵ polyethylene V AKhP 1535-47). A mathe-	5 1 1
Card 1/2	UDC: 62164-762.42	······································	
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ACCESSION NR: AP5026432

between the initial compressive stress of the gasket and its dimensions, internal pressure of the medium, and the modulus of compression, taken as the main characteristics of the physicomechanical properties of the gasket material. The equations obtained can be used for practical calculations of this nature. Orig. art. has: 2 figures, 1 table, and 15 formulas.

SUB CODE: 11 / SUBM DATE: 06Jul64 / ORIG REF: 007 / OTH REF: 002

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TIMOSHUK, A.S.; TAGANOV, N.I.; KIRILLOV, V.N.

Design of packing glands. Izv.vys.ucheb.zav.; khim. i khim.tekh. 8 no.2:338-342 ¹65. (MIRA 18:8)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra mashin i apparatov khimicheskoy promyshlennosti.

ALL LENGTH REAL PLACE

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Study of the geographical closed ution of openherols and ephemeroids on dentral Asia and the choir Encard Tan. Tast. ISU 20 no.3:58-65 - 765. (MIFA 18:2)

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19 JUNE R		ROMER
•	I. 03011-67 W/T(d)/FJP(W)/T/FWP(t) ETT/EF(k)/FMP(h)/HAP(1) -7P(A) ACC NR: AP6023435 JF/HM SOURCE CODE: UR/0135/65/000/007/0001/0003 ACC NR: <u>Baranov, M. S.</u> (Candidate of technical sciences); <u>Afanas'yev, V. N.</u> (Engi- AUTHOR: <u>Baranov, M. S.</u> (Candidate of technical sciences); <u>Afanas'yev, V. N.</u> (Engi- ncer); <u>Voshchinskiy, M. L.</u> (Engineer); Vaynshteyn, R. M. (Engineer); <u>Nedel'Chik, E. V.</u> (Engineer); <u>Taganov, Yu. I.</u> (Engineer); <u>Geynrikhs, I. N.</u> (Engineer) (Engineer); <u>Taganov, Yu. I.</u> (Engineer); <u>Geynrikhs, I. N.</u> (Engineer)	
	(Engineer);	
	TOPIC TAGS: laser application, laser welding $f'(1)$ KO steel ABSTRACT: The results of laser welding of fillet joints of copper and L-62 silver coat- the SU-1 laser weld- ADSTRACT: The results of laser welding of fillet joints of copper and L-62 silver coat- the semicon- the semicon- the semicon-	
	ABSTRACT: The results of all KO'steel and copper all $p < 0.1 \text{ mm}$ attached to sentence ed brass with <u>IKh18N9T</u> stgel, <u>KO</u> 'steel and copper all $p < 0.1 \text{ mm}$ attached to sentence er (shown in photograph) was used to weld thin wires $[d < 0.1 \text{ mm}]$ attached by adjusting ductive and microelectronic devices. The unit power input is regulated by adjusting various object lenses with focal distances of 10, 20, 40, and 50 mm. Unit power input is calculated by the formula $g = W^2/tF$ where W^2 is the energy of radiation considering the losses in the optic system in joules; t is the pulse time in sec and F is the for- cal area in cm ² . The weld penetration and width are proportional to the maximum volt- UDC: 621.791.72:535.14:669.15-194	
	UDC: 021.1020	

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age of the condenser battery. This relationship $i\mathcal{O}$ shown in a table for U8A steel where focal distance is 20 mm. Another test was carried out on strips of UBA steel with a thickness of 2.6 mm (surface condition of the 10th class in accordance with GOST 2789-59) in order to determine the relationship between width and penetration of the welds and the defocusing. These tests showed that when $\Delta f = 0.75$, the weld penetration was max $h = 22 \mu$. Overlap welding was carried out on copper with <u>L-62</u> brass with non-coated brass, 1Kh18N9T stainless steel, KO low-carbon steel and finally on copper, wires. Without stripping the insulation [M1] copper wire of d = 0.05 mm was welded to a silver-coated brass rod of d = 0.5 mm. Neither of these specimens showed cracks in the welds. However, microporosity was indicated in some of the specimens. Shear strength tests of the welds were carried out on two types of welds: without stripping the insulation from the copper wire and with bare wire. The first specimens had an average shear strength of 25.3 kg/mm² while for the second typepe, a shear strength of 26 kg/mm². The small difference makes it feasible to recommend this welding process without stripping the insulation. A comparative test of the laser-welded and brassed joints was made. The latter showed an average strength 13% less than the welded joints. The authors conclude that the laser-welded joints have considerably better mechanical properties than the soldered joints. This is due to the smaller heat-affected zone. Orig. art. has: 6 figures, 1 table. SUB CODE: 13,20/ SUBM DATE: none Joining of dissimilar metals 17 awm Card 2/2

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"I's I flow use of S Bubbe Ad Extures on the Gr stallisation of Account Sulfate to the C Po-Charlesh I dustry." Good Tech Sei, Toral Grier of Labor Red Bonner Printeenmic I st Ingel S.M. Firey, Min Higher Education USSR, Tecsk, 1954. (H., No.1, Jan J.)

Servey of Sole fills and Technical Dissertations Defended at USSR Higher Schentier 1 Justificiano (19) Su: Su. V. 500, 20 Jal 55

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TACANCOLLEN

68-7-8/16

AUT. CR: Taganovich, D.D. (Cand. Tech.Sc.) The Influence of Soluble Admixtures on the Crystallization of Ammonium Sulphate Under Coke Oven Works' Conditions. Vliyaniye rastvorimykh primesey na kristallizatsiyu sul fata ammoniya v usloviyakh koksokhimicheskogo proizvod-TIT_E: PERIODICAL: Koks i Khimiya, 1957, Nr 7, pp.31 - 39 (USSR). ABSTRACT: The work was carried out in order to determine the influence of soluble admixtures on the shape of ammonium sulphate crystals and to study the crystal growth in pure solutions as well as in the presence of aluminium, ferrous solutions as well as in the presence of draminum, forfour and ferric ions. The investigation was carried out using artificial and works' mother liquors. The laboratory apparatus used for the study of crystal growth is described (Fig.3) The method was based on measuring the rate of growth of faces of individual crystals based on the method described naces of individual crystals based on the method described by Mokievskiy (Ref.6). It was established that the rate of growth of (110) and (010) faces is the same and under different growth conditions it changes in the same way. The fore the rate of growth of faces of the pseudohexoganol Thereprism was taken as a mean rate of growth of all the 6 faces The crystal measured in three directions as shown in Fig.2. Cord 1/4

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63-7-8/16

The Influence of Soluble Admixtures on the Crystallization of Ammonium Sulphate Under Coke Oven Works' Conditions.

growth was observed at 40 and 60 C. The dependence of the rate of growth of ammonium sulphate crystals in pure solutions on the degree of saturation is given in Table 1. The influence of the rate of growth of Al., Fe. and Fe. (concentration: 0.005-0.04 g/100 ml) is shown in Figs.4, 5 and 5 respectively and mean results for temperatures 38 and 58.5 C in Figs 7 and 8 respectively. Further increase of the concentration of admixtures from 0.04 to 0.2 g/100 ml was also studied but its influence was insignificant. The influence of the simultaneous presence of two components Al... and Fe.. was also studied, but the effect of the presence of the second component was found to be insignificant. It was established that the highest rates of growth take place in pure solutions and that the rate of growth increases with increasing temperature. Admixtures of Al., Fe. and Fe. decrease the rate of crystal growth. Fe... has the highest effect and Fe . the lowest. The presence of the above admixtures causes the formation of needle like crystals. The influence of admixtures on the crystal shape can be quantitatively determined from the rate of growth of

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