中国教师后期的名字中国家的教育部分的教育,其实会社会

CIA-RDP86-00513R000826720006-0

KRUGLYAKOVA, G.I.; YASINSKAYA, A.A. Magnetic susceptibility of zinc blendes as a function of the displacement of zinc in them by iron. Isv.AN SSSR. Ser.geofiz. no.3:225-227 My-Je '53. (HIRA 6:6) 1. Akademiya nauk Ukrainskoy SSR, Institut geologii poleznykh iskopayemykh. (Magnetism) (Sphalerite) Clarifies the relationship of magnetic susceptibility to chemical compn. Investigate magnetic susceptibility, using A.G.Kalashnikov's system torsion balance. Establish that magnetic susceptibility of zinc blendes can be represented as a linear function of the per cent of substitution of zinc by iron. 258T84 之下。""同学**计》**"新闻"

APPROVED FOR RELEASE: 06/19/2000

1、司称2014年1月19年1月1日年1月1日日

KRUGLYAKOVA, G.I.

Bifect of accessory minerals on the formation of reverse polarity rock massifs. Isv.AN SSSR. Ser.geofis. no.2:214-217 J '55. (MIRA 9:7)

l.Akademiya nauk USSR, Institut geologii polesnykh iskopayenykh. (Magnetism, Terrestial)

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SOV/169-59-6-5678

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 6, pp 36 - 37 (USSR)

AUTHOR: Kruglyakova, G.I.

TITLE: Using the Value of the Residual Magnetization Vector for the Geological Interpretation of Geomagnetic Data

PERIODICAL: Novosti neft. tekhn. Geologiya, 1958, Nr 5, pp 29 - 33

ABSTRACT: The author reports that it is expedient for an exhaustive interpretation of <u>magnetic survey</u> data to determine not only the vector of the inductive magnetization I_1 depending on the magnetic susceptibility of rocks, but also the vector of the residual magnetization I_r . Because the rocks are demagnetized in the course of time, the ratio I_r/I_1 is inversely proportional to the time passed since the moment of the rock's origination. Hence, this relation may be utilized for determining the stratigraphic and, partly, also the absolute age of magma formations characterizing the structure of the basis and, sometimes, also of the sedimental rocks. The curve of the dependence of the ratio I_r/I_1

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Using the Value of the Residual Magnetization Vector for the Geological Interpretation of Geomagnetic Data

on the age of rocks is given; this ratio I_{r}/I_{1} is approximately zero for the Archean era, but for younger formations the ratio increases with an increasing rate and attains a value of 40 and more for rocks of the Tertiary period. The considerable importance of investigating the vector of residual magnetization for the study of the paleomagnetism is emphasized.

M.V. Sokol'skiy

Card 2/2

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24(3) AUTHOR:	Kruglyakoya, G. I.	507/20-123-3-17/54
TITLE:	The Dependence of the Magnetic Content of Water in Them (Zavis soley ot soderzhaniya v nikh vo	imost' magnitnoy vospriimchivost
PERIODICAL:	Doklady Akademii nauk SSSR, 195 (USSR)	8, Vol 123, Nr 3, pp 443-445
ABSTRACT:	can be anhydrous or hydrated) a astatic magnetometer by field- laboratories: Anhydrous salts: $MnCl_2$, $FeSO_4(NH_4)_2SO_4$. Crystal : $NiSO_4 \cdot 7H_2O$, $NiCl_2 \cdot 6H_2O$, $MnSO_4 \cdot 5E_4$ $FeSO_4(NH_4)_2SO_4 \cdot 6H_2O$. The depe	gnetic susceptibility of rocks. this apparatus according to the etic salts. Various salts (which re used for the graduation of thi and stationary magnetic CoCl ₂ , CoSO ₄ , NiSO ₄ , NiCl ₂ , MnSO ₄ hydrates: CoCl ₂ .6H ₂ O, COSO ₄ .7H ₂ O H ₂ O, MnCl ₂ .4H ₂ O, ndence of the magnetic
Card $1/3$	susceptibility of a salt on its by a straight line between the	water content is not described

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The Dependence of the Magnetic Susceptibility of Salts on the Content of Water in Them

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SOV/20-123-3-17/54

susceptibility of the anhydrous salt and the zero value of the magnetic susceptibility which corresponds to 10% of distilled water. The author in short describes the investigations carried out in order to find the dependence of the magnetic susceptibility of the salt on the water content. This dependence can be characterized by a broken line. The higher the magnetic susceptibility of an anhydrous salt, the sharper the breaks of the lines. In some cases (of low magnetic susceptibility), the breaks are hardly noticeable. The first part of the curve connects the magnetic susceptibility of the anhydrous salt with the magnetic susceptibility of its crystal hydrate, it characterizes their mechanical two-phase mixtures of various percentages of the 2 phases. If the added water increases in quantity, more and more molecules of the anhydrous salts are hydrated and magnetic susceptibility decreases to the value of the magnetic susceptibility of the fully hydrated crystal hydrate. The second part of the curve characterizes the two-phase mixture of the crystal hydrate with the saturated solution of the salt. It connects the magnetic susceptibilities of the crystal hydrate and of the saturated solution of the

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The Dependent Salts on the	ce of the Magnetic Susceptibility of S07/2C-123-3-17/54 Content of Water in Them
	given salt, characterizing their mechanical mixture. The third part connects the magnetic susceptibilities of the saturated solution and of distilled water. According to these considerations the concentration of the salt in the solution may be deduced from the magnetic susceptibility of the solution. There are 1 figure and 2 Soviet references.
ASSOCIATION:	Institut geologii poleznykh iskopayemykh Akademii nauk USSR (Institute of the Geology of Useful Minerals of the Academy of Sciences, UkrSSR)
PRESENTED:	June 10, 1958, by V. N. Belov, Academician
SUBMITTED:	June 10, 1958
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Card 3/3	

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s/049/60/000/01/022/027 **E**201/E191 Kruglyakova, G.I., and Kruglyakov, V.V. AUTHORS: The Effect of the Nature of Lava Flow on Remanent TITLE: Wagnetization in Rocks PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya, 1960, No 1, pp 158-160 The experiments were carried out on basalt deposits in TEXT: Berestovets and Yanova Dolina in Volyn (Ukrainian SSR). The lava streams were between 12 and 14 m thick. It was found (Table on p 160) that the vector of remanent magnetization in basalt reflects the geomagnetic field existing during the period of formation of the rock only in the portion where lava flow was laminar. If lava solidified below 675 °C the direction of the vector of remanent magnetization could differ greatly from the direction of the geomagnetic field of the given period even in portions where the flow was laminar. The edges of lava streams, where turbulent motion occurred, had random magnitudes and directions of remanent magnetization which were not necessarily related to the magnitude and direction of the geomagnetic field of the given geological period. It follows therefore that in paleomagnetic investigations Card 1/2÷...

		8/049/60/000/01/022/027 8201/8191
The Effect of in Rocks	f the Nature of Lava	Flow on Remanent Magnetization
DOLATONS OF	LAVA STRAAMS.	craters, and then only the central es: 3 Soviet and 1 English.
	Akademiya nauk USSR, iskopayemykh	, Institut geologii poleznykh
SUBMITTED:	January 8, 1959	
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		is-Asternational Classification
KRUGLYA	KOVA, G.I.	
مورده مر ا	Relationship between magnetic anomalies and the relief of terrain. Trudy NIZMIR no.16:39-52 %60. (Magnetic anamolies)	MIRA 14:3)
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11.1111月1月1日。11.11月1日日的新闻和新聞的問題的問題

5/169/62/000/008/004/090 E202/E192

AUTHOR:	Kruglyakova, G.I.	
TITLE:	The possibility of studying age relationships of rocks according to their state of magnetisation	
PERIODICAL:	Referativnyy zhurnal, Geofizika, no.8, 1962, 9, abstract 8 A 44. (In the Symposium: 'Sostoyaniye i perspektivy razvitiya geofiz. metodov poiskov i razvedki polezn. iskopayemykh' ('The present state and perspectives of developing geophysical methods of locating and prospecting for useful minerals'), M., Gostoptekhizdat, 1961, 509-512).	
changes in the used to for the relation	Periodic changes in the polarity of Earth were on the basis of paleomagnetic studies. Once the • the polarity are known in sufficient detail they may develop a geochronological scale which is useful in sedimentary barren beds. In the case of eruptive rocks n between the magnitude of the residual magnetisation the magnitude of induction has also to be considered.	10
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The possibility of studying age ... 5/

S/169/62/000/008/004/090 E202/E192

This ratio will be close to zero in the case of more archaic, and will approach maximum in the case of recent formations. On these bases, having determined the quantity of the above relation for the samples of various ages, it is possible to use this parameter in determining the age of crystalline rocks. Certain massifs of the Ukrainian shield were studied, for which the relation between the magnetisation and age was established.

[Abstractor's note: Complete translation.]

Card 2/2

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CIA-RDP86-00513R000826720006-0"

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。本生于1943年的中国行民人全国自己保持基本省合和管理和管理指示

在15月1日,这种路路的一个市场的时候和我们的路路。" 建磷酸钙 人名



APPROVED FOR RELEASE: 06/19/2000

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2.177年時期14月1日1月1日

生活生活法的形式的解释的影响和影响 4:2/ 4 (15: P. 4-4) (07

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KRUGLYAKOVA, C.I.

Results of paleomagnetic research in the Ukraine. Izv. AN SSSR. (MIRA 14:11) Ser. geofiz. no.11:1674-1678 N '61.

1. Akademiya nauk USSR, Institut geologii poleznykh iskopayemykh. (Ukraine--Rocks--Magnetic properties)

APPROVED FOR RELEASE: 06/19/2000

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CIA-RDP86-00513R000826720006-0

 BORISOV, A.A.; KRUGLYAKOVA, G.I.
 Deep-seated structure of the earth's core at Transcarpathia. Isv. AN SSSR. Ser. geofis. no.lli1497-1501 N '62.(MIRA 15:11)
 1. L'vovskiy filial Instituta geofisiki AN UkrSSR. (Transcarpathia--Sarth--Internal structure)

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CIA-RDP86-00513R000826720006-0

ACC NR: AP7008912 SOURCE CODE: UR/0215/66/000/011/0068/0077 AUTHOR: Kruglyakov, V. V.; Kruglyakova, G. I. ONG: Leningrad Division, Institute of Terrestrial Magnetism, the Ionospher and Radio Wave Propagation (Institut Zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln, Leningradskoye otdeleniye) TITLE: Importance of epcirogenic curves for interpreting the spatial distribution of the geomagnetic field SOURCE: Sovetskaya geologiya, no. 11, 1966, 68-77 TOPIC TAGS: geomagnetic field, geophysics SUB CODE: 08 ABSTRACT: The paper begins with a discussion of the importance of a knowledge of the distribution of the geomagnetic field for determining the presence of mineralization and a description of the geomegnetic field of the Southern Urals at different heights. Fig. 1 shows ATa anomalies at a height of 6 km; Fig. 2 is the same for 3 height of 30 km; Fig. 3 is a diagram of the block structure of the Southern Urals. The Southern Urals have a block structure and the blocks are separated by a notwork of deep faults of different age. The new data which can be obtained from the use of epeirogenic curves (supplementing other methods) is the main part of the article. It is shown that their use in analyzing the thicknesses and rates of accumulation of sodiments within this area (from the Procambrian to the Upper Paleozoic) gives important information on the characteristics of development of these blocks and the Card 1/2 UDC: 550.38

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ACC NR: AP7008912

history of development of the region as a whole. Specifically, by a comparison of the geophysical fields of the blocks and the character of sedimentation it is possible to establish for each block: whether the geophysical field of the region is caused only by the influence of the petrographic composition of the rocks forming the basement or if the acotectonic characteristics of the area also play a role. Comparison of the pattern of spatial distribution of the magnetic field and the character of sedimentation makes it possible to detect deep faults among the surface faults, the time they were formed and the periods of their maximum activity. The deep faults in the Southern Urals detected by this method are of importance in evaluating the metallogeny of the area and the conditions of ore formation. Analysis of the opeirogenic

curves can be used for correlation of faults in relation to an evaluation of their role in mineral formation. Orig. art. has: 4 figures. [JPRS: 39,718/

2/2 Card

APPROVED FOR RELEASE: 06/19/2000

世界人民的学校的变形。他们的教育的教育的教育。 化环苯甲酸

KRUGLYAKOVA, I.F.

Comparative evaluation of the depressive action of some drugs on the retinal vessels. Vestn. oftal. 76 no.4:34-38 J1-Ag'63 (MIRA 17:1)

1. Kafedra glaznykh bolezney (zav. - prof. 0.I.Shershevskaya) Novokuznetskogo instituta usovershenstvovaniya vrachey.

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USGR/Chemistry - Peroxides	"Is There a Higher Peroxide of Hydrogen?" Prof N. Emanuel', K. Ye. Kruglyakova, Inst of Chem Phys, Acad Sci USSR	"Priroda" Vol 41, No 6, pp 103-105	Assumes that the peroxide $E_c C_{4}$ exists in aq solns of $E_c O_2$, because (1) reaction kinetics show that the number of active centers producing decompn of $E_c O_c$ (HO ₂ radicals that combine to form $E_c O_{4}$) is undiminished after chilling and reheating of the soln; (2) the amt of oxygen evolved is less than that which corresponds to the amt of hydrogen	peroxide decomposed; (3) this discrepancy becomes smaller when the soln has been aged for 1 mo at room temp; (4) evolution of oxygen is delayed after acidulation of $CaO_{l_{1}}$ with dil acid.	14/41/0 37-0/ 1-19/ MR. S 10/ 4 4.44 (MIN) 11/2	5:23	
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AUTHORS :	Kruglyakova, K. Ye., and Emanuel', N. M. 62-1-2/21
TITLE :	Kinetic Characteristics of the Reaction of Propane Oxidation with Oxygen with Chlorine Admixtures in Quartz Crystal Vessels (Kinet- icheskiye kharakteristiki reaktsii okisleniya propana kislorodom s dobavkami khlora v kvartsevykh sosudakh)
PERIODICAL:	Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk, 1957, No. 1, pp. 18-28 (U.S.S.R.)
ABSTRACT:	Investigations were conducted to determine the effect of chlorine admixtures in oxygen used for the oxidation of propane at various atmospheric pressures and temperatures ranging from 250 to 355°. It was found that small additions of Cl accelerate the propane oxidation process and increase the yield of oxygen-containing compounds. An increase in temperature from 250 to 355° is followed by a noticeable increase in the amount of peroxides in the oxidation products and the time needed for maximum concentration of the peroxides
Card 1/3	

62-1-2/21 Kinetic Characteristics of the Reaction of Propane Oxidation with Oxygen with Chlorine Admixtures in Quartz Crystal Vessels

decreases. The introduction of larger Cl-additions was found to be impractical because it does not increase the yield of valuable oxygenous products and the deep-burning processes are stimulated. The total amount of carbonyl compounds was determined by the ordinary hydroxylamine method and it is shown that the error in determining the carbonyl compounds, due to the presence of peroxides which also react with the hydrochloride of the hydroxylamine, was no higher than 3 - 5% of their total content. The content of acetaldehyde, formaldehyde, organic acids and peroxides reaches its maximum within 1 min. The peroxide, being an intermediate molecular product, is being slowly consumed, whereas the acetaldehyde, formaldehyde and organic acids remain unchanged during the continuing oxidation process. The gaseous reaction products include: CO2, Co, and unsaturated hydrocarbons. The nature of the peroxides forming during Cl- catalyzed oxidation of propane is described as a mixture of hydrogen peroxide of isopropyl and hydrogen peroxide.

Card 2/3

Graphs, drawing. There are 9 references, of which 7 are Slavic.

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,	Kinetic Characteristics of the Reaction Oxygen with Chlorine Admixtures in Q	62-1-2/21 of Propane Oxidation with Wartz Crystal Vessels
ASSOCIATION:	Academy of Sciences USSR, Institute of C	
PRESENTED BY:		
SUBMITTED:	June 8, 1956	
AVAILABLE:	Library of Congress	
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TITLE: PERIODICAL:	Some Particular Features in the Behavior of Intermediate Molecular Substances During Propane Oxidation (Osobennosti povedeniya molekulyarnykh promezhutochnykh veshchestv pri okislenii propana)
PERIODICAL:	
	Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 3, pp 417-424 (USSR)
ABSTRACT :	In the present paper the attempt was made to explain the role of some oxidation products - acetaldehyde, methyl alcohol, acetic acid - during the development of the reaction by kinetic methods. Besides, the problem of the nature of the maximum yield of one of these products (acetaldehyde) was experimentally investigated. In figure 1 the kinetic curves of the formation of intermediate products are presented. Under given experimental conditions it could be seen that propane is consumed during the formation of acetaldehyde, formaldehyde, and methyl alcohol in practically equal quantities. The effect exerted by acetaldehyde additions (1.78, 4.3, 5.5 %)
Card 1/3	on the formation kinetics of the intermediate products is given in figure 2. It was proved that these additions increase the

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11月21日月月1日前日日本和日本市场的新闻

Some Particular Features in the Behavior of Inter- 50V/62-59-3-6/37 mediate Molecular Substances During Propage Oxidation

> oxidation rate of propane, whereby acetaldehyde, formaldehyde, and apparently methyl alcohol are formed. The maximum concentrations of the oxidation products remain the same as in experiments without additions. The addition of acetic acid (0.28 %) and methyl alcohol (2.7 %) does not affect their yield (Table). By means of tagged atoms it was proved that the maximum concentration of acetaldehyde represents a special case of the dynamic equilibrium. Apparently in the moment of the maximum concentration both the formation and consumption of this product are retarded. This might be due to an interaction of the intermediate products with the radicals of the chain, wherein less active centers are formed which guarantee the retarding effect. The lacking activity in dimedone derivatives of formaldehyde confirms the assumption that the latter is not formed from acetaldehyde but independently of.it. The value of the specific activity of carbon monoxide $\alpha = 125$ impulses per minute . mg and CO_2 (132 impulses per minute . mg) indicates that CO and CO_2 are not only formed from

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some Particul mediate Molec	ar Features in the Behavior of Inter- ular Substances During Propane Oxidatio	sov/62-59-3-6/37 n
	acetaldehyde but also in another way. 1 table, and 18 Soviet references.	There are 4 figures,
ASSOCIATION:	Institut khimicheskoy fiziki Akademii of Chemical Physics of the Academy of	nauk SSSR (Institute Sciences, USSR)
SUBMITTED:	May 30, 1957	
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ard 5/5		

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运行时期初度组织期间,但如此和新闻的<u>。在1999年</u>

301/62-59-6-8/36 Kruglyakova, K. Ye., Emanuel', N. M. 5(4) Kinetics of the Oxidation of Propane Induced by Chlorine in AUTHORS: initsiirovannogo khlorom okisleniya propana v sosudakh s nasadkoy Packed Vessels at Different S/V (Kinetika TITLE: pri raznykh S/V) Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 6, pp 1005 - 1010 (USSR) PERIODICAL: By way of introduction the different possibilities of observing the chain reaction which occurs with the process mentioned in the title are dealt with in brief (Hefs 1-17). It could be ob-ABSTRACT: served that a considerable influence is exercised upon the process by the walls of the vessel, that is to say, by their shape and the material they are made of. For the investigation reported on in the present paper a vessel was used made of sodium glass which was equipped with an insert consisting of glass balls of the same type but with different diameters (5,3,1.7 mm). Oxidation was investigated with a mixture of $C_3 H_8 : O_2 = 1:1$ at a temperature of 346°, at first in a vessel without an insert. (Curves of the reaction kinetics in figure 1). Card 1/3APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720006-0" Kinetics of the Oxidation of Propane Induced by Chlorine in 308/62-59-6-8/36 In this case already no agreement with the data given in reference 18 could be found. (These data were obtained by using a quartz vessel for the reaction). When using the ball shaped inserts the reaction was considerably accelerated (mostly if the balls had a diameter of 1.7 mm), but on the other hand the yield in aldehydes decreased. It is because of this acceleration that the reaction may also be carried out in the presence of chlorine without inflammation of the mixture (Fig 2). In this case the chlorine (0.5%) despite of its accelerating the process also secures a high yield in aldehydes. The kinetic ourves which all (with, and without addition of chlorine that only influences the yield in aldehydes) exhibit an S-shape may easily be represented by the autocatalytic function of the first order, if only not the initial but the final concentration of the product is taken as standard for the reaction intensity. Thus the reaction is self-accelerating and the insert only influences the ramification of the chains as with this ball shaped insert a reaction surface is formed which takes part Card 2/3 in the process of ramification. The peroxide which otherwise

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Kinetics of the Oxidation of Promane Laduced by Chlorine 30V/62-59-6-8/36 in Packed Vessels at Different S/V
as intermediate product disturbs the reaction may without any difficulties be decomposed on the burning surface. There are 8 figures and 18 references, 13 of which are Soviet.
ASSOCIATION: Institut khimicheskoy fiziki Akudemii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences, USSR)
SUBMITTED: August 23, 1957
Card 3/3

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826720006-0

STATES STREET BURNE

5 (2), 5 (4) AUTHORS:	Kruglyakova, K. Ye., Emanuel', N. M. SOV/62-59-7-9/38
TITLE :	Activation of the Container Surface by the Reacting Mixture $C_3H_8 + O_2$ in the Presence of Chlorine (Aktivatsiya poverkhnosti sosuda reagiruyushchey smeys'yu $C_3H_8 + O_2$ v prisutstvii khlora)
PERIODICAL:	Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 7, pp 1211-1215 (USSR)
ABSTRACT :	By way of an introduction there is a brief reference to own papers and to papers of Sergeyev and Shtern (Ref 2), Kalinenko and Voyevodskiy (Ref 3) being in connection with the problem under review. This paper reports on the discovered activation effect as it is called in the title. The existence of the effect was concluded from the initiating effect of the surface of the container on the oxidation in the absence of chlorine following experiments with chloroinitiated oxidation of propane. The apparatus on which the experiments were carried out is described in paper, reference 5. The reaction kinetic curves with and without the addition of chlorine at 335° are plotted in figure 1. The chlorine influences strongly the yield
ard 1/2	of acetaldehyde. This influence of the chlorine could only be

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Activation of Mixture C ₃ H ₈	the Container Surface by the Reacting SOV/62-59-7-9/38 O ₂ in the Presence of Chlorine
	noticed in quartz containers with a glass splinter filling. In containers made of other material also the formation of formaldehyde was influenced. There are accordingly two ways independent of one another to produce both aldehydes. A production scheme of both aldehydes is given (for the formaldehyde according to the scheme of Semenov and Shtern (Refs 4, 6)). Furthermore, the yield of formaldehyde and acetaldehyde is investigated in dependence on the reaction temperature and addition of chlorine. In figure 3 also the secondary effect of chlorine is to be seen (decrease of the yield of aldehydes at high temperatures). There are 4 figures and 6 Soviet references.
ASSOCIATION:	Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences, USSR)
SUBMITTED:	October 24, 1957
Card 2/2	
CIA-RDP86-00513R000826720006-0

82689 S/062/60/000/008/002/012 5.4300 B004/B054 AUTHORS: Kruglyakova, K. Ye. and Emanuel', N. M. Macroscopic Stages in the Reaction of Propane Oxidation in TITLE: the Presence of Chlorine PERIODICAL: Izventiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1960, No. 8, pp. 1342-1347 TEXT: Various investigations (Refs. 1-4), as well as papers by V. I. Urizko and M. V. Polyakov (Ref. 5), R. S. Yenikopopov and G. S. Konarava (Ref. 6), studied the kinetics of exothernic chain reactions by measuring the development of heat in the reaction mixture. The existence of two timeseparated macroscopic stages was observed. The authors applied this method to study the course of propane exidation. Fig. 1 shows the curves of heat development and pressure variation for the stoichiometric mixture $C_3H_8 + O_2$ at 340 and 358°C and 244 torr. The heat development shows a maximum. The linear course of the function $\log \Delta p = f(t)$ corresponds to Semenov's law on the initial stage of branched chain reactions. With addition of 2% by volume of chlorine, the character of heat development changes. Fig. 2 Card 1/3

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Macroscopic Stages in the Reaction of Propane Oxidation in the Pressnce of Chlorine

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shows the course of reaction at 327°C. There are two maxima, the first after 25 sec, the second after 600 sec. Figs. 3-5 show the course of reaction with different chlorine additions (3.5%, 8%) and temperatures (340, 358, 372°C). The existence of two maxima is explained by the course of two degenerate branched chain reactions. The authors give the following reaction diagram: $B + R \rightarrow C + R$ (1); $C \rightarrow 2R$ (2); $A + R' \rightarrow D + Q'$ (3); $D + C \rightarrow 2R'$ (4); $R \rightarrow loss$ (5); $R' \rightarrow loss$ (6), where B is the initiating admixture, A the initial substance, R and C the free radical and the end product of the first reaction, R' and D the free radical and the end product of the second reaction. The linear breaking-off of the reactions (5) and (6) is caused by the loss of radicals on the walls of the vessel. The authors write down the differential equations for the reaction rates, substitute the experimental data for concentration, as well as the constants, and obtain the kinetic curves Fig. 6 for B, C, and D by means of numerical integration. The equation $\Delta T_m = k(Q_1W_1 + Q_2W_2)$ is written down for the heat development, where Q1, Q2 denote the thermal effect of the first and second stage, respectively, $W_1 = -dB/dt$; $W_2 = dD/dt$; $k = R^2/4\lambda$ (R = radius of the remains vessel, λ = mean heat conductivity of the reacong gates). Fig. (these Card 2/3

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KRUCLYAKOVA, K. YE, and NIKOLAYVA, N. V. (USSR)

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"Inhibition of the Radiation Depolymerization of DNA by Inhibitors of Radical-Chain Processes."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

APPROVED FOR RELEASE: 06/19/2000

An KRUGLYAKOVA, K. Ye. Cand Chem Soi --"Kinetics and Chemism of A chlorineinitiated reaction of the oxidation of propane." Mos, 1961 (Mos Order of Lenin and Order of Labor Red Banner State Univ im M. V. Lomonosov. Chem Faculty). (KL, 4-61, 187)

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CIA-RDP86-00513R000826720006-0

34759 S/020/62/142/003/027/027 B144/B101

27/220 AUTHORS: Nikolayeva, N. V., Kruglyakova, K. Ye., Kiselev, N. A., Baynshteyn, B. K., and Emanuel', N. M., Corresponding Member AS USSR

TITLE: Reduction of radiation damage of DNA molecules in the presence of propyl gallate (PG)

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 3, 1962, 713-715

TEXT: The present study concerns the protective effect of PG on 0.007% DNA solutions which were prepared from the spleen of rats and diluted in 0.1 M ammonium acetate, pH 6.2, to 0.0015%. The intrinsic viscosity [η] of 25 dl/g corresponds to a molecular weight of $\sim 3 \cdot 10^6$, the coefficient of molar extinction ϵ (r)260 mµ = 6450. Doses of 66,000, 168,000, and 336,000 r were applied with a $\delta \Phi - 2$ (BF-2) short focus x-ray test apparatus (8 ma, 75 kv, Mo anode, without filter), dose intensity 155,000 r/min. One-stage carbon replicas were examined in an IEM-5G electron microscope, accelerating tension 80 kv, magnification 18-25,000 times. The damage

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Reduction of radiation damage ...

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percentage increases from 50 through 75 to 100% after irradiation doses in the above-mentioned sequence. In all cases, addition of FG guarantees a 40 - 50% protection of DNA molecules (Fig. 1). The size of the DNA molecule fragments is greater with PG addition than without. Further studies are needed to decide whether these fragments are incompletely decomposed molecules of the initial DNA or a result of cross-linking facilitated by PG. PG addition after irradiation and testing of DNA and PG as to their biological activities may solve this problem. There are 2 figures and 19 references: 8 Soviet and 11 non-Soviet. The four most recent references to English-language publications read as follows: A. R. Peacocke, B. N. Preston, Proc. Roy. Soc., Ser. B, <u>153</u>, No. 950, 90 (1960); R. La; arjet, H. Ephrussi-Taylor, N. Rebeyrotte, Radiation Res., Suppl. 1, 417 (1959); F. M. Defilippes, W. R. Guild, Radiation Res., <u>11</u>, 38, (1959); P. Alexander, K. A. Stacey, IV Internat. Congress of Biochemistry, Vienna, 1 - 6 Sept., Symp. IX, 1958.

SUBMITTED: September 30, 1961

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LIPSITS, D.V.; KRUGLYAKOVA, K.Yc.; POSTNIKOVA, M.S.: EMANUEL', N.M. Suppression of the development of vegetable tumors (potato canker) by inhibitors of radical processes. Dokl.AN SSSR 145 (MIRA 15:7) no.1:212-214 Jl '62. ÷., 1. Vsesoyuznaya nauchno-issledovatel'skaya stantsiya po raku kartofelya Vsesoyuznogo instituta zashchity rasteniy i Institut khimicheskoy fizik AN SSSR. 2. Chlen-korrespondent AN SSSR (for Emanuel'). (Potato wart) (Gallic acid) APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720006-0"

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AUTHOR:	Sholina, S. I.; Bog	olyubskiy, V. A.; Krug	Lyakova, K. Ye.
TITLE:	Antioxidative effect	iveness of some hydrog	uinone derivatives
SOURCE:	AN SSSR. Izvestiya	. Otdeleniye khimiche	skikh nauk, no. 5, 1963, 789—793
TOPIC TA	GS: antioxidants, h	ydroquinone derivative	s, Mannich reaction
methylat: quinone; -(diethy. Compound propylgal an 0 sub aminometh times tha 0-positio	ion using the Mannic (2) 2,3-bis-(dimeth laminomethyl)hydroqu s (1)-(3) proved to 2 pressure of 300 m nyl groups (compound at of hydroquinone. on in the monoethyl o	th reaction: (1) 2,5-bi ylaminomethyl)-5-isopre- inone; and (4) 2-disthy be more effective anti- der standard condition g Hg for 20 minutes. 3 1) increased the anti- Substitution of a seco- ether of hydroquinone (. "The authors express)	he following compounds by amino- is-(dimethylaminomethyl) hydro- opylhydroquinono; (3) 2,5-bis- ylaminomethyl-4-methoxyphenol. oxidants than hydroquinone and s with methyl oleate at 90C and Substitution of mixed alkyl and oxidative effectiveness to 5 ondary aminomethyl group in the (compound 4) had no effect on s their gratitude to N. M. " Orig. art. has: 2 figures,

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CCESSION NR: AP3000127 UTHOR: Smirnov, L. D.; Sholina, S. I.; Kr	
TITLE: Space restricted 3-oxypyridines. R antioxidizing properties of some 2,6-dialky (dialkylamino)methyl-3-oxypyridines	eport 2. Synthesis and the study of the 1-3-oxypyridines and 2,6-dialkyl-4-
SOURCE: AN SSSR. Izvestiya. Otdeleniye k	himicheskikh nauk, no. 5, 1963, 890-893
TOPIC TAGS: synthesis of 2-alkyl-3-oxy-6- 6-methyl-3-oxypyridine ABSTRACT: The present work is devoted to to of antioxidants 2,6-dialkyl-3-oxypyridines 3-oxypyridines, whose structures are closed of a number of 2-alkyl-3-oxy-6-methylpyridi with ammonia has been realized. The antiox dialkylaminomethyl-3-oxypyridines has been methyloleate. The most effective antioxid oxypyridine. The introduction of direthyl morpholine groups into the 4th position of	the synthesis and study of the properties and 2,6-dialkyl-4-(dialkylsmino)methyl- ly related to vitamin B6. The synthesis ines by reaction of 2-acyl-5-methylfurans xidative effect of some 2,6-dialkyl-4- studied in the oxidation reaction of ant was found to be 2-ethyl-6-methyl-3-
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liminates the and	dative properties of t M. Emanuel for his con graph, and 1 equation.	hese materials ntinued intere	• "The authors st in this work.	express	
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<u>L 12717-63</u> EWP(j)/EPF(c)/EWT(1)/EWT(m)/BDS AFFTC/ASD Pc-4/Pr-4 WW/RM/JFW ACCESSION NR: AP3002301 S/0062/63/000/006/1143/1143	
AUTHOR: Emanuel', N. M.; Kruglyakova, K. Ye.; Vichutinskiy, A. A.; Vasil'yev.	
TITLE: Chemiluminescence of solutions of desoxyribonucleic acid (DRNA) after irradiation with x -rays	
SOURCE: AN SSSR. Izv. Otdeleniye khimicheskikh nauk, no. 6, 1963, 1143	
TOPIC TAGS: chemiluminescence, desoxyribonucleic acid (DRNA), x-rays, irradiation, peroxides, recombination of radicals	
A ¹ /5:RACT: A low intensity chemiluminescence has been discovered following irradia- tion of DRNA solution. The intensity falls exponentially with time. It was shown chemically that the peroxides arising from irradiation of DRNA decompose according to the same law at approximately the same rate. The chemiluminescence may arise from recombination of <u>radicals</u> formed from peroxides produced in the irradiation.	
ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemi- cal Physics, Academy of Sciences SSSR)	•
SUBMITTED:25 Feb 63DATE ACQ:16 Jul 63ENCL:00SUB CODE :00NO REF SOV:004OTHER:000Card 1/1	

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SAMOKHVALOV, G.I.; BUDAGYANTS, M.I.; SHAKHOVA, M.K.: SHOLINA, S.I.; KRUGLYAKOVA, K.Ye.; NIKOLAYEV, R.P.; ROMANOVA, A.F. 7-Alkyl derivatives of quercetim and their antioxidizing effectivemess. Izv. AN SSCR. Ser.khim. no.9:1617-1621 S '63. (MIRA 16:9) 1. Institut khimicheskoy fiziki AN SSSR 1 Vsesoyuznyy nauchnoissledovatel'skiy vitaminnyy institut. (Quercetim) (Amtioxidants)

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ZHIZHINA, G.P.; ZYBINA, D.L.; KRUGLYAKOVA, K.Ye.; EMARUEL', N.M. Kinetic characteristics of the degradation of peroxide compounds in irradiated DNA solutions. Dokl. AN SSSR 158 no.4:935-938 0 '64. (MIRA 17:11) 1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Emanuel'). A CARLES AND A CARLE APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720006-0"



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	acid. Dokl. AN SLOR 163 h.	nd of superwaak glow of inradiated solutions of Dokl. AN SESR 163 nt.4:931-934 Ag 105.		(MIRA 18:8)	
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SAFRIN, A.N.; KLOCHKO, E.V.; KRUGLYAKOVA, K.Ya.; CHIBRIEIN, V.M.; EMANULL, N.N.
Effect of the inhibitors of radical reactions on the kinetics of the change in free radical content in the organe of mice in experimental leukemia. Dokl. AN SSSR 166 no.3:746-748 Ja '66. (MIRA 19:1)
1. Institut khimicheskoy fiziki AN SSSR. 2. Chien-korrespondent AN SSSR (for Emanuel'). Submitted August 27, 1965.

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L 31196-66 EWP(1)/EWT(m) EM ACC NR: AP6022567 AUTHOR: Emanuel', N. M.; Burlakova, Ye. B.; Kruglyakova, K. Ye.; Sapezhinskiy, I. I. ORG: Institute of Physical Chemistry, AN SSSR, Moscow (Institut khimicheskoy fisiki AN SSSR) TITLE: Studies on free-radical reactions following irradiation of model systems and the role of radicals in radiation injury	

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ACC NRI AP6030025	SOURCE CODE: UR/0020/66/169/005/1203/1205
AUTHOR: Nikolayeva, N. V.; S	emenova, L. P.; Kruglyakova, K. Ye.
ORG: none	
TITLE: Fractionation of irra cellulose anionexchange colum	idiated and protected DNA with propylgallate on a in
SOURCE: AN SSSR. Doklady, v	v. 169, no. 5, 1966, 1203-1205
chromatography ABSTRACT: It is known that protects DNA from	on, column chromatography , radiation damage, ion exchange propylgallate, an inhibitor of free radical reaction, radiation damage. DNA extracts from living cells in molecular weight and ion exchange chromatography
with propylgallat DNA fractions and	e has been found an effective means of separating distinguishing native and irradiated DNAs. The ion graphy system is described and some experimental re- [WA-50; CBE No. 11]
with propylgallat DNA fractions and exchange chromato sults presented.	e has been found an effective means of separating distinguishing native and irradiated DNAs. The ion graphy system is described and some experimental re-
with propylgallat DNA fractions and exchange chromato sults presented.	e has been found an effective means of separating distinguishing native and irradiated DNAs. The ion graphy system is described and some experimental re- [WA-50; CBE No. 11]

ITLE:	The Relation of the Resolution of Smell Details in the
TILET	The Relation of the Resolution of Small Operative Light Beam Multiple Copying to the Nature of the Operative Light Beam (Zavisimost: razresheniya melkikh detaley pri mnogokratnom kepirovanii ot kharaktera deystvuyushehego svetovogo puchka)
FERICDICAL:	Churnal nauchnoy i prikladnoy fotografii i kinematografii, 1958, Vol 3, Nr 5, pp 359-362 (USSR)
ABSTRACT :	The object of the study was to determine how the resolu- tion of small details at various stages of the duplicating process was effected by replacing the white light source by ultra-violet and using a parallel corying beam instead of a diffused one. For the experiment, double-positive A, double- negative A and positive MZ photographic materials were used. The resolution of the various materials was found by the contact method, projecting a special line pattern into them and later measuring the degree of reproduction. This was carried out in both white and ultra-violet light. The copy- ing process went through five stages, yielding 2 intermediate positives, two duplicates and one final positive. The resolu- tion of the pattern lines was determined in each case. It
Card 1/2	was found that the resolution of small details falls sharply

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507-77-3-5-7/21 The Relation of the Resolution of Small Details in the Multiple Copying to the Nature of the Operative Light Beam during copying, particularly in the first stages. The resolution can be considerably improved by ultra-violet light instead of white and a parallel copying beam instead of a diffuse form. Further experiments showed that alter-ing the development conditions had little effect on resolution and that the use of an ultra-violet parallel copying beam is a more effective means of improving the resolution of small details in multiple-copying than the use of special films with a high resolving power. There are 3 tables, 1 graph and 2 Soviet references. Leningradskiy institut kinoinzhenerov (Leningrad Institute ASSOCIATION: of Motion Picture Engineers) January 12, 1957 SUBMITTED: 1. Photographic films--Processing 2. Photographic films--Test results Card 2/2行业当时的公寓社

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(1999年)(1997

Wastova, M. M.
WRASTOSHEVSKIY, L.S.; DANCHICH, V.V.; AVDIYENKO, T.G.; ARKHANGEL'SKIY, A.F.;
GAK, A.M.; TEPIFANTSEV, Yu.P.; ZELINSKIY, V.M.; IVANOV, P.S.; IVASHCHENKO, P.R.; KALININA, M.D.; KRAVCHENKO, A.G.; KOTLYANOVA, A.V.; KROGLAKOVA, M.D.; LEVIKOV, I.I.; LIBKIND, R.I.; NIKOLAYEVA, M.A.; HAUKENKO, V.F.;
THEOMMAN, I.B.; FRISTAZINIKOV, V.S.; POBBUINSKAYA, L.P.; POKALTUKOV, S.N.; POPOV, A.A.; SOLOHENTSEV, M.M.; TARASOV, I.V.; FILOHENKO, A.S.; SHISHOV, Te.L.; SIRATMAN, L.I.; YAKUSHIN, N.P.; ZVORTKINA, L.N., red. izd-va; LOMILINA, L.N., tekhn.red.
[Horizohtel mining in foreign countries] Provedenie gorizontal'nykh vyrabotok za rubeshom. Moskva, Ugletekhisdat, 1958. 342 p. (MIRA 12:4)
1. Kharkov. Vsesoyuznyy nauchno-issledovatol'skiy institut organizatsii i mekhanizatsii shakhtnogo stroitel'stra. (Mining engineering)

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DUBININ, N.N., kand.tekhn.nauk; DOROSHENKO, G.N., kand.tekhn.nauk; KOTLYAROVA, A.V., inzh.; KRUGLYAKOVA, M.D., inzh.; VOLOVICH, CHEKHOVSKAYA, T.P., red.izd-va; SHKLYAR, S.Ta., tekhn.red.

> [Shaft sinking in the U.S.S.R. and in foreign countries] Opyt prokhodki stvolov shakht v SSSR i za rubezhom. Moskva, Gos. nauchno-tokhn.izd-vo lit-ry po gornomu delu, 1960. 257 p. (MIRA 13:11)

1. Kharkov. Ukrainskiy nauchno-issledovatel'skiy institut organizateii i mekhanizateii shakhtnogo stroitel'stva. (Shaft sinking)

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	REZNIK,	I.D.; KRUGLYAKOVA, M.S.		
		Laboratory investigation of gypsus of slag as used in the shaft furn nickel ores. Sbor. nauch. trud. 299 '61	Gintavatmeta no.18:275-	100 1 1 16:7)
		(Nickel-Motallurgy)	(Gypsum)	
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s/136/62/000/006/004/005 E071/E435

Reznik, I.D., Kruglyakova, M.S. AUTHORS:

TITLE:

On the cause of irregularity in the composition of

matte on shaft smeltin; of oxidized nickel ores with gypsum

PERIODICAL: Tsvetnyye metally, no.6, 1962, 80-83

It was found difficult to control the composition of matte on smelting oxidized nickel ores with gypsum in shaft furnaces. According to previous investigations the presence of molten slag leads to a rapid decomposition of gypsum even in a reducing atmosphere, while without slag, gypsum is fully transformed into calcium sulphide. In the present work the velocity of the interaction of calcium sulphate with metallic iron in the presence of slag (25.1% Fe, 31.9% SiO2, 16.6% CaO, 0.1% MgO, 0.2% A1203 and $\langle 0.1\%$ S) in the temperature range 900 to 1000°C was investigated. The procedure consisted of heating a mixture of finely ground components in corundum crucibles in a stream of nitrogen; the SO2 evolved was absorbed and the residue in the Card 1/2

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crucible analysed for sulphide and sulphate sulphur. In the absence of slag, sulphate sulphur rapidly reduced to sulphide; the presence of slag slowed down the reaction but the removal of sulphur with gas was insignificant. The proportion of metallic iron present in the mixture had a decisive influence on the transfer of sulphur into the sulphide form. In the presence of slag and an insufficient proportion of iron, up to 47% of sulphur is removed as the gas SO2. If there was an excess of iron (in respect of equation: $CaSO4 \div 4Fe = CaS + 4FeO)$ all sulphur transformed into sulphide. The following mechanism of sulphidization is postulated: gypsum mainly decomposes with the evolution of 502 which, together with elementary sulphur, is absorbed by iron, reduced to metallic and ferrous forms. On the basis of this mechanism a number of features of shaft smelting of oxidized nickel ores with gypsum are explained. There are 2 figures.

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REZNIK, I.D.; KRUGLYAKOVA, M.S. Interaction of gypsum with metallic iron in the presence of slag as applied to shaft furnace smelting of oxidized nickel ores. Zhur.prikl.khim. 35 no.6:1237-1242 Je '62. (HIRA 15:7) (Nickel ores) (Gypsum) (Iron)

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REZNIK, I.D., kand. tekhn. nauk; LYUMKIS, S.Ye.; KOVALEV, D.Ye.; TUMASOV, V.F.; KRUGLYAKOVA, M.S.; GRITSKOVA, V.T. Periodic process of depleting waste slags from the shaftfurnace amelting of oxidized nickel ores with the help of an electric hearth. Sbor. nauch. trud. Gintswetmeta no.23:151-163 '65. (MIRA 18:12)

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KRUBLYAK	(JA, PP) 15-57-7-9454
Translation f	p 100 (000)
AUTHORS :	Fridman, N. G., Kruglyakova, P. P.
TI TLE :	The Use of Phase Gas Analysis for Studying the Processes of Dehydration of Hydrated Minerals (Primeneniye fazo- vogo gazovolyumetricheskogo analiza dlya izucheniya protsessov obezvozhivaniya gidratirovannykh mineralov)
PERIODIC AL:	Tr. Kazansk. fil. AN SSSR, ser. khim. n., 1956, NF 5, 28-87-87
ABS TR ACT:	The authors have studied the dehydration of minerals (gypsum, hydrous borates, hydroboracite, carnallite, and polyhalite) in order to explain the kinetics of the dehydration process. They used the nonautomatic burette of Berg, 1.5 m long with a volume of 7 mm to 8 mm. Calcium hydride served as the reagent. The investigations were made at various temperatures. The maximum temperatures of dehydration, obtained from the thermal curves of Kurnakov, were taken as a basis.
Card 1/2	thermal curves of Marnery

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15-57-7-9454 The Use of Phase Gas Analysis for Studying (Cont.) Subsequent determinations were carried on at lower temperatures. After 2.5 to 5 minutes, depending on the rate of dehydration, a detectable quantity of water was given off, equivalent to the volume of H obtained in the gas burette. The method permits rapid and accurate acquisition of data on the dehydration of minerals in small samples. Ye. S. Kabanova Card 2/2 TARREST MAL .

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Loningro	id, Isslodovai	iya po Uprugosti :	l Plastichnosti, l	No 4, 65, pp 123-15	β. ν ^η
Abstract the smal and invo practice suggeste the acou the tri and 1 to	t: A present 11 contral op orsoly symmot al use. In c od has a simp fficients of gonometric fa able. [JPRS:	ation of a unified oning in rotation rical loads." The ontrast to most pr lification which i the equation. In ctors are retained 35,995/	method for deter sholls under the solution is in a evious works on t nvolves nymmetric the stress and di . Orig. art. has	mination of strosso influonce of symmot form convenient for he subject, the met al deformation only splacement expressi : 13 figures, 10 f	hod in [.
TOPIC TY	AGS: shell s	tructure dynamics,	shell deformatio	n	
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	URCE CODE: UR/0105/65/00	0/005/0091/0095
AUTHOR: Dobromyslov, I. I.; Tverdin, L. M.;	Kruglyanskiy, I. M.	42
ORG: none		
TITLE: Scientific and technical seminar on their application in modern automated indust	semiconductor power conve ry	rters and .
SOURCE: Elektrichestvo, no. 5, 1965, 91-93		
TOPIC TAGS: electric engineering conference automation, semiconductor device, automation converter	, electric power engineer equipment, rotary electr	ing, industrial ic power
ABSTRACT: The article reports on the proce October 1964 at the VDNKh SSSR (Exposition Fconony USSR). Twenty-five reports were ma scientific and industrial organizations in opening remarks dealt with the progress and in power system applications and the prospe ject was the effect of physical phenomena a manufacture techniques on the parameters of There followed several papers on power conv from single-phase to three-phase or to D.C. tifiers. A few papers were devoted to the to electric drive systems for speed control duction) motors. Static converters and inv	of the Achievement of the de by representatives of the electric power field. status of semiconductor ets for the future. The companying various semic the circuit components (ersion, from one frequenc , motor-generator systems application of thyristors of D.C. and A.C. asynchr erters were considered ne	nectional over ten The techniques next sub- onductor rectifiors). y to another, , and rec- to electric onous (in-
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SUB CODE: 09, 13 / SUEM DATE: none	on various industrial applications of power conversion chemical and metallurgical industry, in machine tool the application of pulse-time and pulse-width control minar was being conducted, the participants had an pecial exhibition prepared by the VDNKh. A resolution evelopment in the field of semiconductors for power the conclusion of the seminar. (JFRS)	
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KRUGLYANSKIY, M.R.; CHUPRUNOV, D.I., red.; PAN'SHINA, L.N., red.izd-ve; SHLYK, M.D., tekhn.red.

> [Handbook for admission to specialized schools of the U.S.S.R.] Spravochnik dlia postupaiushchikh v srednie spetsial'nye uchebnye savedeniia SSSR (tekhnikumy, uchilishcha, shkoly) v 1959 g. Moskva, Gos.izd-vo "Sovetskaia nauka," 1959. 370 p. (MIRA 12:8) 1. Russia (1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya.

(Technical education)

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KRUGLYANSKIY, M.R.; KISELEV, M.M., red.; GRIGORCHUK, L.A., tekhn.red.
[Handbook for students entering special secondary schools of the U.S.S.R. (technical schools) in 1960] Spravochnik dila postupolushchikh v srednie spetsal'nye uchebnye savedenila SSER (tekhnikuwy, uchilishcha, shkoly) v 1960 g. Moskva, Gos. isd-vo "Vysshnia shkola," 1960, 358 p. (MIRA 13:5)
1. Russia (1923- U.S.S.R.) Ministerstvo vysshego i srednego spetsial'nogo obrasovanila. (Technical education)

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UGRYUMOV, V.M.; KRUGLYI, M.M.; VINARSKAYA, Ye.N.; KOCHKOV, A.A., red.

> [Therapeutic gymnastics in injuries to the spine and spinal [Therapeutic gymnastics in injuries to the spine and spinal cord] Lechebnaia gimnastika pri povrezhdeniiakh pozvonoch-nika i spinnogo mozga. Moskva, Medtisina, 1964. 182 p. (MIRA 17:5)

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CIA-RDP86-00513R000826720006-0"

SOV/126-7-6-10/24 AUTHORS: Amonenko, V. M., Kruglykh, A.A., and Tikhinskiy, G.F. TITLE: Vacuum Distillation of Chromium PERIODICAL: Fizika metallov i metallovedeniye, 1959, Nr 6, pp 868-874 (USSR) ABSTRACT: Impurities in chromium make it brittle and difficult to deform at high temperatures and decrease its usefulness as a heat-resisting alloy base. Much work (Refs 1-10) has been done on its purification. This included vacuum distillation (Ref 1) at 10^{-4} mm Hg and 1400°C with condensation on a surface at unspecified temperature, which, as shown in Table 1, failed to effect any improvement. The authors describe their own work at a laboratory of the FTI of the Ac.Sc., UkrSSR on chromium distillation in a high vacuum onto a heated surface. The method has been reported (Ref 11). The temperatures of distillation and condensation can, assuming the applicability of Raoult's law, be calculated for the particular purification required. Fig 1 shows a general view of the installation, provided with a highvacuum and backing pumps. Evaporation was effected from alumina or beryllium-oxide crucibles heated by tungsten Card 1/3

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Vacuum Distillation of Chromium

SOV/126-7-6-10/24

or molybdenum wire spirals, and condensation in a ceramic column internally coated with tantalum sheet (Fig 2). Temperatures were measured with a type OPPIR-09 optical pyrometer and all experiments were at 10⁻⁵ mm Hg. Chromium samples produced by the alumino-thermic and the electrolytic methods were distilled: the initial and final compositions are shown in Tables 2 and 3 respectively. Distillation was effected at 1250-1500°C, the condensingcolumn temperature being 950-1200°C. The chromium was deposited (Fig 3) in the lower and middle zones. No purification from iron or aluminium resulted for the alumino-thermic material and these elements, together with carbon and silicon, were also the most difficult to eliminate from electrolytic chromium. It was found, however, that by passing the chromium vapour through a filter of chromium-oxide powder, the aluminium present in the chromium is oxidized and its content in the refined metal falls to 0.001-0.003 but that of oxygen rises to 0.03%. By passing the vapour through zirconium turnings, the silicon content could be reduced to 0.001%.

Card 2/3

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Vacuum Distillation of Chromium

SUV/126-7-6-10/24

Simultaneous purification to 0.003, 0.001 and 0.005% Al, Si and C, respectively, was obtained by fusion in air of either form of chromium with 5% tungsten before distillation. The micro-hardness of chromium distilled at 10⁻⁴ to 10⁻⁷ mm Hg was determined with a type PMT-3 machine, the results (Table 4) showing that the softest material is that distilled at the lowest pressure. Freshly-distilled chromium had considerable plasticity, but on storage in air this decreased due to the absorption of nitrogen, oxygen and hydrogen (Table 5). There are 4 figures, 5 tables and 13 references, 2 of which are Soviet, 10 English and 1 German.

COLUMN STORY

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UkrSSR (Physicotechnical Institute, Ac.Sc., Ukrainian SSR)

SUBMITTED: February 25, 1958

Card 3/3

STATISTICS AND A STATISTICS

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	/ 7.7.520 AUTHORS:	S/126/60/009/01/026/031 B091/E191 Kruglykh, A.A., Pavlov, V.S., and Tikhinskiy, G.F.	
		Reserve to 11 day tion for Beryllium N	
	PERIODICAL	L: Fizika metallov i metallovedeniye, 1960, 701 9, 81 1, pp. 168-151 (USSR)	
	ABSTRACT: Card 1/2	High-purity beryllium (99.98%), distilled in high vacuum, was used in this work to investigate verystallization. This beryllium contained the following impurities: $10^{-3}\%$ Cu; $10^{-3}\%$ Fe; $10^{-3}\%$ Al; $10^{-3}\%$ Mn; $10^{-4}\%$ N1; $2 \ge 10^{-3}\%$ Ga; $10^{-3}\%$ Mg; $5 \ge 10^{-3}\%$ C; and $3 \ge 10^{-3}\%$ Cr. The specimens were made in the form of plates, 0.8 mm thick, by condensation of beryllium vapours in high vacuum (approximately 10^{-6} mm Hg) on a molybdenum backing at a temperature of 250 °C. In order to ensure uniform structure, the plates were subjected to deformation by 30% along the width by repeated rolling at room temperature in air (the reduction in area in each rolling was approximately 0.3%), followed by annealing at 700 °C for 15 hours. In order to study recrystallization, the specimens were again deformed by 25% along the width ty rolling under the same conditions in two directions at	
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	zation of Beryllium
s a o i F o c a d 2	Tight-angles to each other. The structure of the pecimens after these treatments is snown in Figs la-) nd Fig 2a. Fig 3 shows the dependence of the duration f the recrystallization process on the temperature of sothermal annealing after the final deformation. Ig 4 shows the dependence of the average grain diameter in the time of isothermal annealing in logarithmic coordinates. On the basis of the above experiments the ctivation energy of recrystallization of boryllium eformed by 25% along its width was found to be 1 ± 3 kcsl/glatom. The activation energy of grain rowth in finely crystalline boryllium is $3^{10} \pm 5$ kcal/g.
2/2 a T	tom. here are 4 figures and 5 references, of which 3 are oviet and 2 English.
ASSOCIATION	
SUBMITTED:	August 15, 1959

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26.224 Authors :		nko, V.M., Tikhinskiy, G.F. a	and
		by Vacuum Distillation 18	
	pp.581-585	tallovedeniye, 1960, Vol.10,	
purifying b volatilitie was carried 10 ⁻⁵ to 10 ⁻ evaporating condensing Condensatio the column (measured 1 temperature content in	beryllium from certain as of these elements a d out using a diffusio -6 mm Hg. A berylliu g the beryllium, heate column, placed over t on took place on the m . The condensation s by a pyrometer and by e was determined. Fi the original material (co) plotted against	to 14) had shown the possibil: a elements despite similar and beryllium. The present we be pump giving residual pressu- am oxide crucible was used for a by molybdenum spirals. The the crucible, is shown in Fig- molybdenum plate on the inside surface was heated to 900 to thermocouples) and the optimu- ig.2 shows the ratio of the im- l (q ₂) to the impurity in the the temperature of evaporation copper, $4 - silicon$). Fig	work ures of r he .1. e of 1100°C um mpurity on
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一行之主中经济的资源出版的影響和建築的研究

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Refining Beryllium by Vacuum Distillation

the change in manganese content with increasing column temperature. A similar change occurs with aluminium. Fig.4 shows that 85 to 90% of the original material can be distilled before the impurity concentrations increase to any extent. Fig.5 shows a column with baffles which has been used very successfully. The table gives the chemical composition of the initial beryllium (second column) and the beryllium after distillation (third column using a simple condensing column, and the fourth column using baffles). The purest beryllium is obtained in the middle zone and is 99.99% apart from oxygen (0.04%) and carbon (0.02%). The carbon originates from oil vapours from the diffusion pump, and the oxygen from sublimation of the crucible material (BeO) and reactions between beryllium and the crucible material to form Be₂0. The microhardness of the distilled beryllium (99.98%) decreased to 130 kg/mm² for monocrystals and the hardness of the cast metal was 100 H_{b} - a decrease by a factor of 1.5 to 2. The low plasticity of the beryllium is explained by the considerable quantities of carbon and oxygen still There are 5 figures, 1 table and 16 references: present. 8 Soviet and 8 English. Card 2/3

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Manufacture of a Beryllium Foil

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if the molybdenum underlayer has $50-100^{\circ}$ C at the beginning of the deposition by vaporization, and the temperature is thereafter quickly increased. It was determined that the grain of the foil gets coarser with the increase of the temperature and prolongation of the duration of the beryllium condensation. A corresponding duration is to be applied for each temperature of the thermal aftertreatment. It is recommended to aftertreat thermally for 6 and 3 hours at 700 and 800°C. Foils of a thickness of 40-70 μ are vacuum tight, if the underlayer was not heated above 300° C. There are 3 figures and 2 references, 1 of which is Soviet.

Card 2/2

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