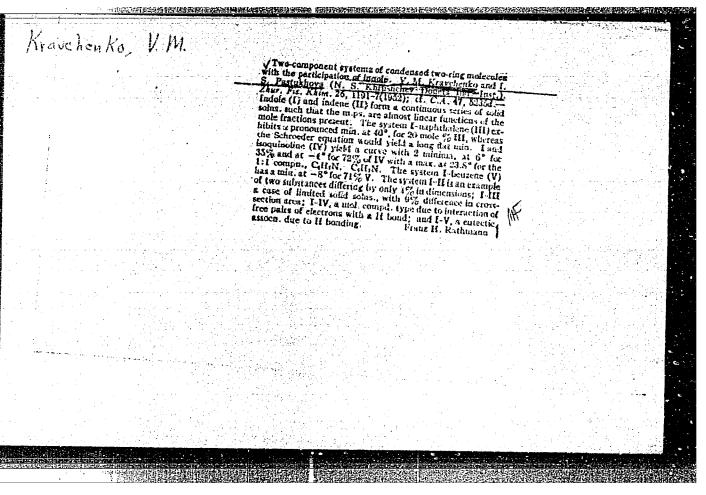
KRAVCHENKO, V. M., YEREMENKO, A. P.

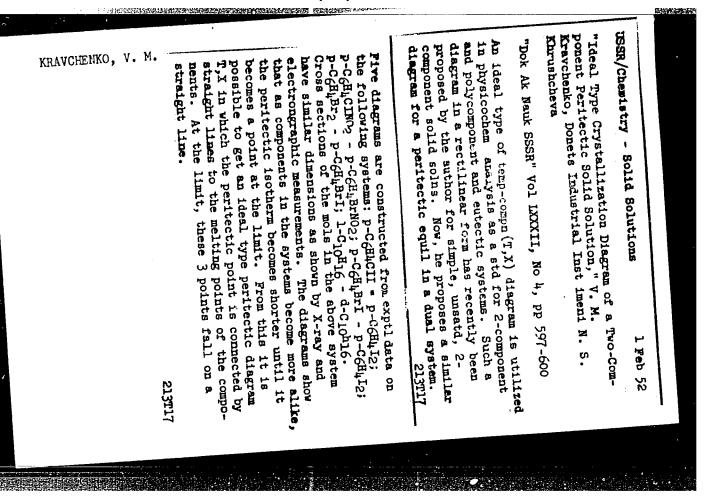
Solutions, Solid

Binary solid solutions of tricyclic molecules of fluorene, phenanthrene, anthracene, and carbazole, Zhur. prikl. khim., 25, No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress October 1952, UNCLASSIFIED



The temary systems indene-naphthalene-benzene and indene-standardine-behzene. V. M. Kraychenko N. S. Khmehchev Industrial Inst. Donety. Zhur. Fis. Rhim. 26, 1284-90(1053); cl. Zhur. Fis. Rhim. 25, 313 (1053).—The systems C.HC.H.I. (I) and C.HC.H. C.H. C.H. C.H. C.H. C.H. C.H.		7. М		_6,	المستورد والمستوردون		
diagram has a single line of binary entecties. This line divides the field of crystn. of the solid soln. of CoH ₂ -CuH ₃ from the C ₄ H ₄ field in I, and that of the solid soln. of CaH ₂ 1-6-54	1		indene-Bougamonne-Benzeno. V. Khrushchev Industrial Inst Doi 26, 1284-00(1952); cf. Zhur. (1952).—The systems C.H.a-Cal C.H.a-Cal C.H.a-Cal C.H.a-Cal C.H.a-Cal C.H.a-Cal C.H.a-Cal C.H.a-Cal Component; for I values are giver ratios 12.41/87.59, 20.39/73.01. 31.85, while for II the C.H.a-Cal G.T., 52.3/47.7, 72.35/27.05. T.	M. Flaville 18. Khim. 15. 313 Is-Calla (I) and CaHs-lie m.p. of each system is ion of the couct. of each of the CaHs-CaHs mol. 54.92/45.09, and 08.15/In mol. ratios are 32.3/lie corresponding eutectic 2. 31.8 to -32.5°, and		The second secon	
		-	 -35.0 to -37.2°, resp. in both diagram has a single line of bindivides the field of crystn. of the from the C ₄ H ₄ field in I, and that	ary entecties. This line solid soln. of C.HCH. of the solid soln. of C.HCH.		•	
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KRAVCHENKO, V.M.

Condensed phase equilibrium in binary systems of naphthalene and its homologs. Review and forecast of naphthalene systems. Ukr.khim.zhur. 19 no.1:21-35 '53. (MIRA 7:4)

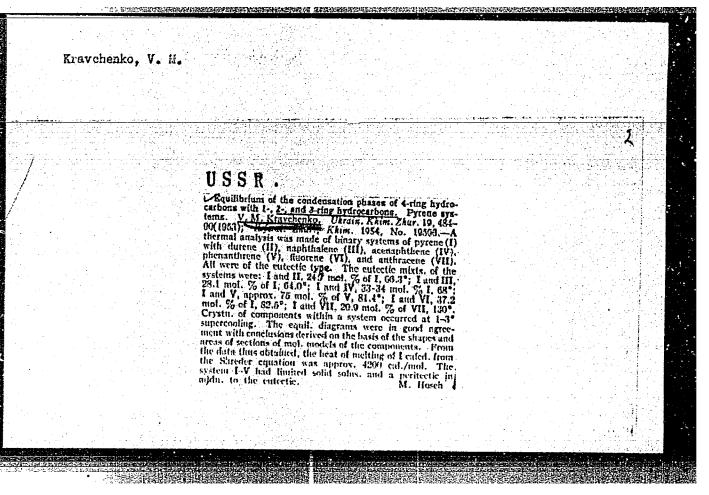
 Donetskiy industrial nyy institut im. N.S.Khrushcheva. (Naphthalene) (Systems (Chemistry)

KRAVCHENKO, V.M.

Equilibrium in condensed phases of four-ring hydrocarbones with one-, two-, and three-ring hydrocarbones. Pyrene systems.

Ukr.khim.zhur. 19 no.5:484-490 153. (MLRA 8:2)

Donetskiy industrial nyy institut im.N.S.Khrushcheva.
 (Pyrene) (Condensation products (Chemistry))



KRAVCHENKO, V.M.

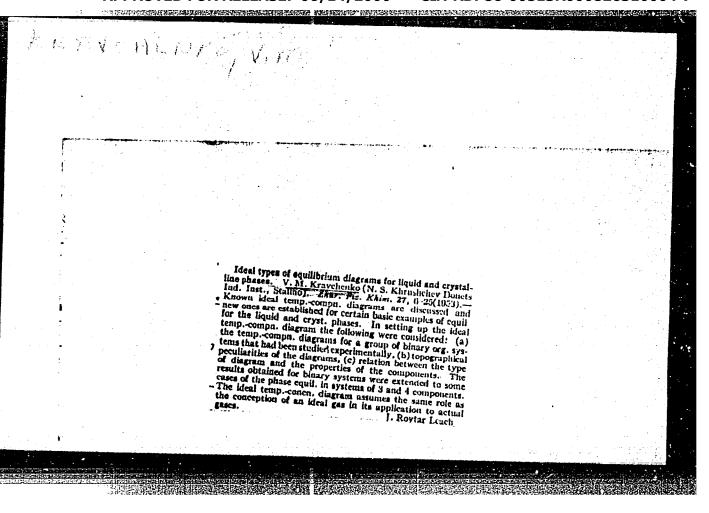
Equilibrium of condensed phases in systems formed by anthracene with naphthalene homologues, di- and octahydroanthracene. Ukr. khim.shur. 19 no.6:599-609 153. (MLRA 8:5)

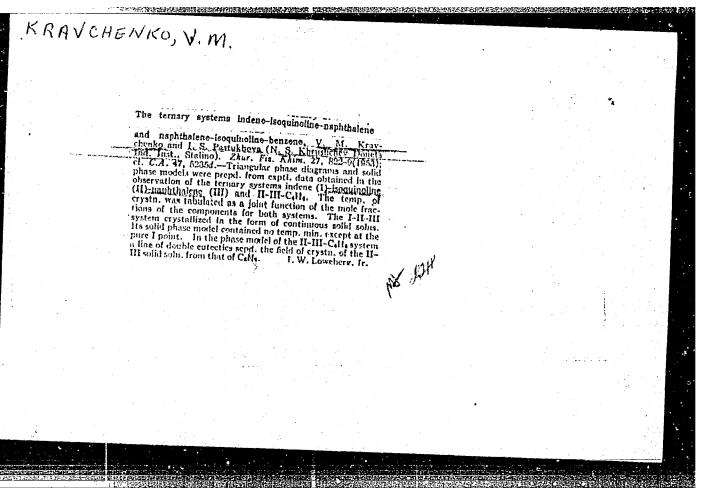
1. Donetskiy industrial'nyy institut imeni N.S.Khrushcheva.
(Anthracene) (Naphthalene) (Systems (Chemistry))

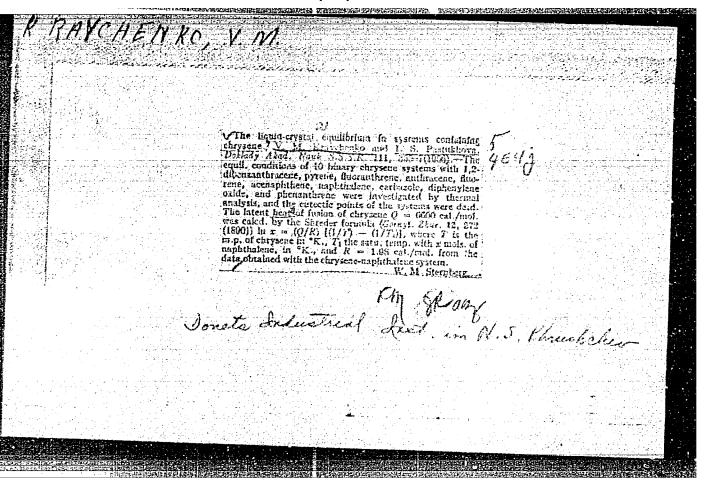
KRAVCHENKO, V.M.; PASTUKHOVA, I.S.

Crystallization of 2,6-dimethylnaphthalene in binary systems with benzene homologues, naphthalene, and diphenyl. Ukr.khim.shur. 19 no.6:610-617 '53. (MIRA 8:5)

 Donetskiy industrial'nyy institut imeni N.S.Khrushcheva. (Naphthalene) (Systems (Chemistry))







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MRAVELLENKO, V NI.

AUTHORS: Kravchenko, V.M. and Pastukhova, I.S. 73-2-7/22

TITLE: Diphenyleneoxide systems with 2- and 3-xing hydrocarbons and carbazole. (Sistemy difenilenoksida s dvukh- i trekhkol chatymi uglevodorodami i karbazolom).

PERIODICAL: "Ukrainskiy Khimicheskiy Zhurnal" (Ukrainian Journal of Chemistry), Vol.23, No.2, March-April, 1957, pp.180-190 (USSR).

ABSTRACT: Diphenyleneoxide occurs in considerable quantities in coal tar (Ref.1: P.P.Karpukhin, Trudy Soveshchaniya Po Tsiklicheskomu Syr'yu AN SSSR, OTN, M.-L.,1937, p.63), in approximately similar percentage as anthracene, carbazole and acenaphthene. (Ref.1: P.P.Karpukhin, Trudy Soveshchaniya Po Tsiklicheskomu Syr'yu AN SSSR, OTN, M.-L.,1937, p.63; Ref.2: M.S.Litvinenko, Koksokhimicheskaya Promyshl., USA, 1947). Phase equilibria were determined for 9 two-component systems for diphenelene oxide and the following components: naphthalene, 2-methylnaphthalene, 2,6-dimethylnaphthalene, 2,6-dimethylnaphthalene, anthracene, acenaphthene and carbazole. The obtained data characterise the conditions at the beginning

card 1/3 tained data characterise the conditions at the beginning and the end of crystallisation of the substances. Equilibrium data for all the above named binary systems are

73-2-7/22

Diphenyleneoxide systems with 2- and 3-ring hydrocarbons and carbazole. (Cont.)

tabulated (Table 1). Lines of ideal solubility are plotted in Diagrams 1 and 2 and calculated according to I.F.Shreder's equation (Ref.5: I.F.Shreder, Gornyi Zhurnal, 1890, No.12, 272). It was shown that the systems diphenylene oxide-naphthalene, diphenylene oxide-2,6-dimethylnaphthalene, diphenylene oxide- 2,7-dimethylnaphthalene, diphenylene oxide - anthracene and diphenylene oxide acenaphthene have a simple eutectic equilibrium. Diphenylene oxide - phenanthrene form organic solid solutions. The system diphenylene oxide -2-methylnaphthalene gave organic solid solutions which are characterised by a phase diagram with a minimum. Diphenylene oxide -fluorene and diphenylene oxide - carbazole gave a continuous series of solid solutions. The heat of fusion of diphenylene oxide was calculated from the data obtained by thermal analysis and found to be 4200 cal/mole. The type of binary systems of diphenylene oxide with various 2- and 3-ring components was considered in connection with the structure of the Card 2/3 molecules. Diagram 5 shows sectional diagrams of the various molecules of the above named compounds.

There are 5 diagrams, 1 table and 13 references, 7 of which

Diphenyleneoxide systems with 2- and 3-ring hydrocarbons and carbazole. (Cont.)

are Slavic.

ASSOCIATION: Donets Industrial Institute, imeni N.S.Khrushchev. (Donetskiy Industrial'nyy Institut im. N.S.Khrushcheva).

SUBMITTED: June 21, 1956.

AVAILABLE: Library of Congress

Card 3/3

KRAYCHENKO, V.M.: PASTUKHOVA, L.S. (Stalino)

A study of the crystallization of acenaphtene in single, two, and three ring hydrocarbon systems [with summary in English].

Zhur.fiz.khim.31 no.8:1802-1811 Ag '57. (MIRA 10:12)

1. Donetskiy industrial nyy institut im. N.S. Khrushcheva. (Grystallization) (Acenaphtene) (Hydrocarbons)

KRAVCHENKO, V.M.; PASTUKHOVA, I.S.

Crystallization of diphenylensulfide in one-, two-, and three-, ring compound systems. Ukr. khim. zhur. 24 no. 2:168-176 '58.

(MIRA 11;6)

1. Donetskiy industrial'nyy institut, g. Stalino.

(Dibenzothiophene)

(Systems(Chemistry))

CIA-RDP86-00513R000826310004-7 "APPROVED FOR RELEASE: 06/14/2000

AUTHORS:

Kravchenko, V. M., Pastukhova, I. S. والمعارض والم والمعارض والمعارض والمعارض والمعارض والمعارض والمعارض والمعار

20-119-2-26/60

TITLE:

The Equilibrium of Condensed Phases in the Naphthalene -

Thionaphthene System

(Revnovesiye kondensirovannykh faz v sisteme naftalin-

tionatten)

PERIODICAL:

Dorlady Akademii Nauk SSSR, 1958, Vol. 119, Nr 2,

pp. 285-287 (USSE)

ABSTRACT:

Naphthalene is produced from coal tar with an admi ture of

thionaphthene. This admixture is removed by means of

repeated washing with concentrated ${\rm H_2SO_4}$, with a following

rectification and by means of other methods. The difficulties rising on this occasion are explained among others by the formation of solid solutions of both materials. A short survey of technical literature follows (ref 1-4). In order to solve the problem on the type of the phase diagram of the system mentioned in the title the author first carefully prepared the components. Thionsphthene was synthezised

from styrene and Hos at 6000 ever a cata yat. "Pure"

Card 1/5

naphthalene was processed by means of metalic sodium

CIA-RDP86-00513R000826310004-7"

APPROVED FOR RELEASE: 06/14/2000

The Equilibrium of Condensed Phases in the Naphthalene- 20-119-2-26/60 Thionaphthene System

distilled and then re-crystallized. The melting and crystallization processes were investigated by means of the method of thermal analysis under the application of a convenient laboratory (ref 5). Severel mixtures of components were investigated by means of the dilatometric method. The investigation results are given on table 1. The diagram based on them sempound (A) - temperature of the beginning of the crystallization process (t_1) and its termination (t_2) is shown on fig. 1. It was found that the named materials form a system of solid solutions with limited sutsetie. In fig. 1 the curves of an ideal solubility of the components of the system which were computed according to the solution by I. F. Shreder (ref d) are plotted with dotted line. These curves and the diagram t, X found experimentally strengtly diverge in fig. 1. Such a strong deviation can be explained by the formation of solid solutions which have a liquidua line approunting a straight line (analogy in rel 7). The structural date for naphthelene

Card 2/5

The Equilibrium of Condensed Phases in the Naphthalene- 20-119-2-26/60 Thionaphthene System

(ref 8) indicate the equality of the intermolecular bindings C - C = 1 1 A and the valent angles < 0-C-C- 120° which they form. By completing these quantities by the values of the intermolecular radii $R_c = 1.72$ and $R_{tr} = 1,17$ % the surface of the cross sections of the flat naphthalene molecule S pprox 50 Å 2 can be found. It can be seen from the computation of the binding C-C in naphthalene (ref 9) that Δ S is smaller than 1 R^2 . For this reason the neutralized structural data can be used for the building up of the cross section (S and S') of the model of the naphthalene molecule (fig 2). The thionaphthene structure could not be found in technical literature. On fig. 2 the cross sections of its model (S, and S!) are built up approximately. The ratio of the surfaces of the greater cross sections of the molecule models: S/S, ~ 5 %. On the application S, has place within S. The sulfur atom in thionaphthene, however, inconsiderably projects beyond the boundaries of the corresponding section

Card 3/5

The Equilibrium of Condensed Phases in the Naphthalene- 20-119-2-26/60 Thionaphthene System

of the outline of the molecule of naphthalene. These small divergencies in size and shape of the cross sections of the models of the naphthalene and thionaphthene molecules explain the isomorphism found in these materials. Diagram t,X (fig. 1) shows on its greatest part (40-100 % naphthalene) that the points on the liquidus line coincide with the limiting straight line which might be plotted between the molting points of the components. With 0-40 % naphthalene the liquidus curve deviates from the mentioned straight line only to a small extent (not above 50 at the minimum point). This section can be explained by the specific influence of thionaphthene; by the influence of the sulfur heteroatoms which differ in size and in the fields of force from the CH group in the porceases of the components of the solid solution. There are 2 figures, 1 table, and 12 references, 7 of which are Soviet.

Card 4/5

The Equilibrium of Condensed Phases in the Naphthalene- 20-119-2-26/60 Thicasphthene System

ASSOCIATION: Donetskiy industrial'nyy institut im. N. S. Khrushcheva

(Donets Industrial Institute imeni N. S. Khrushchev)

PRESENTED: October 5, 1957, by I. I. Chernyayev, Member, Academy of

Sciences USSR

SUBMI Tran: October 1, 1997

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Card 5/5

A PROPERTY OF THE PROPERTY OF

. AUTHORS:

Kravchenko, V. M., Pastukhova, I. S. SOV/79-29-1-7/74

TITLE:

The Equilibrium Liquid and Crystals in SystemsWith the Participation of Anthene Fluorine (Ravnovesiye zhidkosti-kristally v sistemakh s uchastiyem fluorantena)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 27-34 (USSR)

ABSTRACT:

The authors recently published a few results on the balance conditions between fluid and crystalline phases in systems with the participation of two tetracyclic hydrocarbons, namely, pyrene and chrysene (Refs 1,2). Frank (Ref 3) mentions some data which only partly characterize some phase diagrams of anthene fluorine without giving results concerning the crystallization end in the systems. This paper concerns a system group with the participation of anthene fluorine C₁₆H₁₀ which

prevails quantitatively among the components of pitch coal 9 double systems were investigated with such second components as: benzene, 1,2,4,5-tetramethyl benzene, (durene), naphthalene, 2-methyl naphthalene, 2,7-dimethyl naphthalene, phenanthrene, fluorene, anthracene, and acenaphthene, e.g. as representatives of the mono-, bi- and tricyclic aromatic hydrocarbons. Thus 9 systems of 2 components were investi-

Card 1/2

The Equilibrium Liquid and Crystals in Systems With the Participation of Anthene Fluorine SOV/79-29-1-7/74

gated in which anthene fluorine is connected with mono-, biand tricyclic hydrocarbons which occur in the technical mixtures obtained in connection with the pyrolysis of fuel fossils. The eutectic type of the investigated systems was found. The melting heat of anthene fluorine (about 4300 cal/mol) was determined. The type of the phase diagrams is explained. The type of some systems under the participation of anthene fluorine which are not as yet investigated is predicted. There are 3 figures, 1 table, and 10 references, 8 of which are

ASSOCIATION:

Donetskiy industrial nyy institut (Donets Industrial Institute)

SUBMITTED:

July 19, 1957

Card 2/2

S/020/61/136/001/021/037 B016/B055

AUTHORS:

Kravchenko, V. M. and Pastukhova, I. S.

TITLE:

Binary Systems of Bicyclic Molecules One of Which Is

Thionaphthene

PERIODICAL:

Doklady Akademii nauk SSSR, 1961, Vol. 136, No. 1,

pp. 104-107

TEXT: The authors studied the phase diagrams of systems composed of thionaphthene and one other component having either a structure strongly resembling thionaphthene (Fig. 1, S_1 and S_1^{\dagger} - thionaphthene, S_2 - indene, \mathbf{S}_3 - indole) or one with a markedly different molecular cross-section (Fig. 1, S_4 - isoquinoline, S_5 - 3-methyl isoquinoline, S_6 - 2-methyl naphthalene and S_7 - 2,6-dimethyl naphthalene). Data on the corresponding binary systems composed of thionaphthene and the above-mentioned substances (1) - (6) are listed in the same order in Table 1, which reads as follows:

Card 1/6

Binary Systems of Bicyclic Molecules One of Which Is Thionaphthene

S/020/61/136/001/021/037 B016/B055

 $\chi_{_{
m B}}$ = weight, $\chi_{_{
m M}}$ = mole% thionaphthene, t₁ = temperature at beginning crystallization and t at completion of crystallization. The types of phase diagrams found by the authors are in good agreement with the characteristics of the components (Fig. 1). To study the dependence of T, the equilibrium temperature of the condensed phases, on X, the composition of the mixture (in %), the authors applied 4 different methods: a) Thermal analysis using an apparatus built according to the scheme given in Ref. 1, b) Visual observation applying the same apparatus, c) Several specially prepared mixtures were measured by means of a dilatometer connected to an ultrathermostat and d) The behavior of components in the liquid phase was studied by measuring the refractive index n_{D}^{t} of mixtures of composition X in the Abbé refractometer. The authors found that the systems (1) - (3) exhibit complete solid-state solubility while (4), (5) and (6) form eutectics. The formation of solid solutions in the systems (1) and (2) is explained by structural similarity of the components, the differences ΔS and ΔV of the cross-sectional areas (S A^2) and volumes (V Λ^3) of the molecules being small, i.e.~3 - 5 and/or~1 - 6%. The eutectic type of the

Card 2/6

Binary Systems of Bicyclic Molecules One of Which Is Thionaphthene

\$/020/61/136/001/021/037

systems (4) - (6) is explained by the considerable difference in shape (Fig. 1) and size of the component molecules. The corresponding differences in this case are $\Delta S > 14\%$ and $\Delta V > 20\%$. Fig. 2 represents the t, X and t, n_D^t diagrams of all six systems. The systems (1) and (2) are of the

linear type I of V. Ya. Anosov's (Ref. 8). Finally the authors compare their data with the thionaphthene - naphthalene system which they had studied earlier on (Ref. 9) and state that the latter occupies a position intermediate between the eutectic systems (4) - (6) and the solid solutions and that it is closely related to the linear type I. There are 2 figures, 1 table, and 9 references: 5 Soviet, 2 US, and 2 British.

ASSOCIATION: Donetskiy industrial nyy institut, g. Stalino (Donets

Industry Institute Stalino)

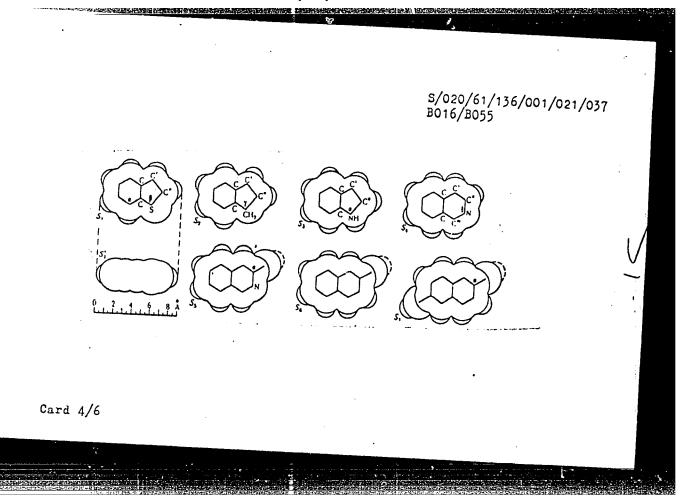
PRESENTED:

July 1, 1960, by I. I. Chernyayev, Academician

SUBMITTED:

June 29, 1960

Card 3/6



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MESON CONTROL OF THE PROPERTY OF THE PROPERTY

LITVINENKO, A.U., kand. geol.-miner. nauk, ctv. red.; MYAZEV, G.I., kand. geol.-miner. nauk, red.; MAVOFF KO, V.M., inzh.-geolo, red.; KULINENKO, O.R., inzh.-geolog, red.; KHRIPKOV, A.V., kami. geol.-miner. nauk, red.; EL'YANOV, M.D., kand. geol.-miner. nauk, red.; KOROLEVA, T.I., ved. red.

[Problems of the geology and mineralogy of ore deposits] Voprosy geologii i mineralogii rudnykh mestorozhdenii. Moskva, Nedra, 1964. 188 p. (MIRA 17:12)

1. Institut mineral'nykh resursov.

THE RESERVE OF THE PROPERTY OF

PASTUKHOVA, I.S.; KRAVCHENKO, V.M.

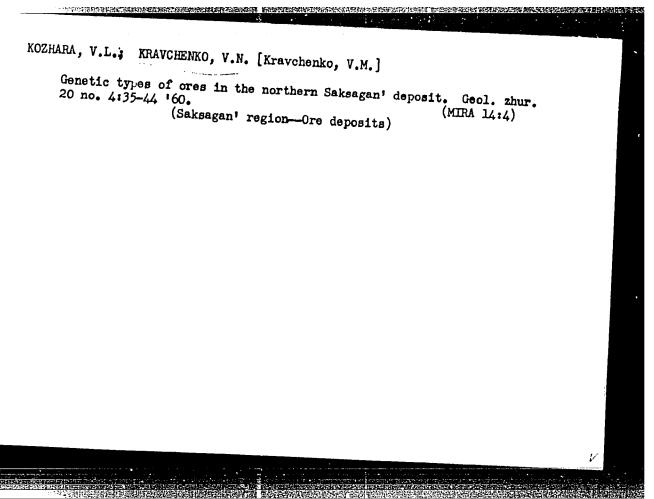
Crystallization in the ternary system p-xylene - m-xylene - carbon tetrachloride. Zhur.prikl.khim. 37 no.1:136-141 Ja '64. (MIRA 17:2)

1. Donetskiy politekhnicheskiy institut.

ERAYCHPARA, V.M.; TETERYUK, V.M.

Microsporas in the residual iron orea in the crivey bag and Belozerka deposits of the Warainian B.S.R. Izv. AM MADE. Fer. (SHA 18:7)

1. institut mineral nykh resursov, inspreprinted.

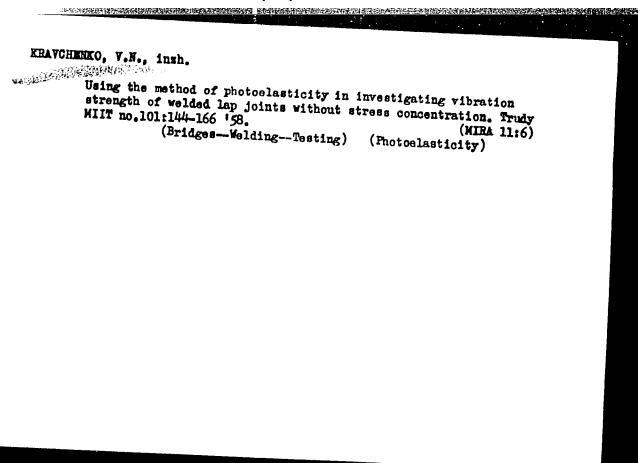


KRAVCHENKO, V.N., assistent

Increasing the vibration strength of lap-welded joints by creating stress deconcentrators. Trudy NIIZHT no.14:130-142 (MIRA 12:1)

THE PROPERTY OF THE PROPERTY O

1. Novosibirskiy institut inzhenerov sheleznodorozhnogo transporta.
(Bridges--Welding)



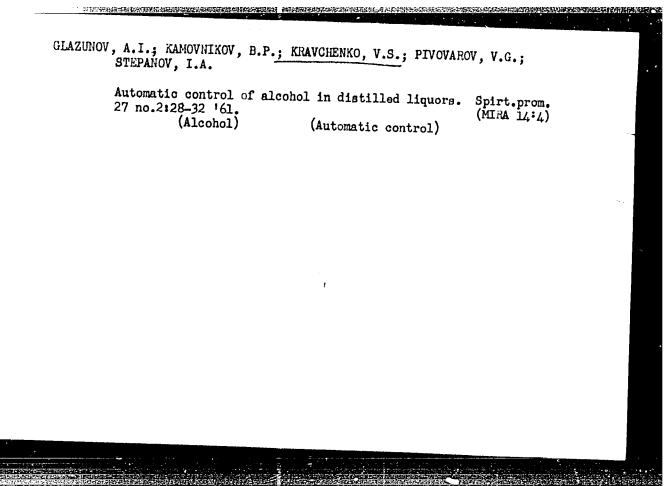
KRAVCHENKO, V. N.: Master Tech Sci (diss) -- "Investigation of the vibration strength of lap-welded joints with stress deconcentrators, using the method of photoelasticity". Moscow, 1959. 10 pp (Min Transportation USER, Moscow Order of Lonin and Order of Labor Red Banner Inst of Railroad Transport Engineers im I. V. Stalin), 150 copies (KL, No 14, 1959, 120)

KRAVCHERIKO, V.P. (Rostov-na-Donu)

Economic use of material resources. Zhel. dor. transp. 47 no. 11:79-80 N *65 (MIRA 19:1)

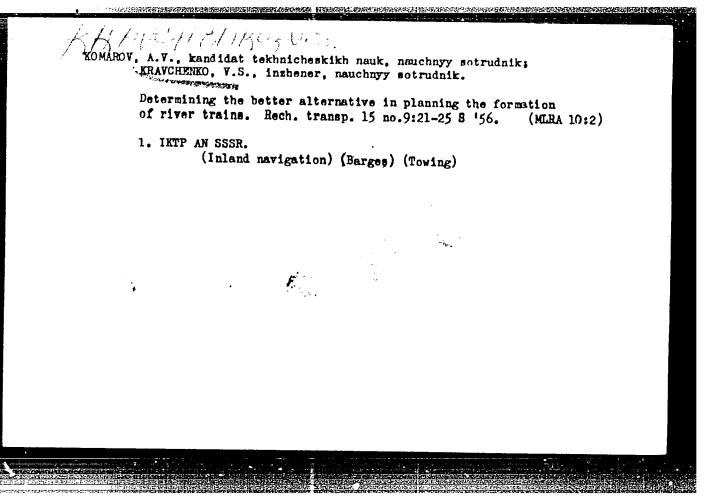
1. Starshiy revizor sluzhby material no-tekhnicheskogo obespecheniya Severo-Kavkazskoy dorogi.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826310004-7"



KRAVCHENKO, V.S.; STEPANOV, I.A.; TIKHOMIROV, L.A.; KAMOVNIKOV, B.P.; GLAZUNOV, A.I.

Automatic maintenance of constant pressure in continuous rectifying columns. Spirt.prom. 27 no.3:29-33 '61. (MIRA 14:4) (Leningrad—Liquor industry—Equipment and supplies) (Distillation apparatus)



KOMAROV, A.V., doktor tekhn.nauk, nauchnyy sotrudnik; SOLOV'YEV, I.F., kand.tekhn.nauk, nauchnyy sotrudnik; KRAVCHEMO, V.S., inzh., nauchnyy sotrudnik; KOVSHOV, G.N., inzh., nauchnyy sotrudnik.

Experimental multidestination transportation of merchandise in combined railroad-waterway communications. Rech.transp. 17 no.2: 8-13 F '58. (MIRA 11:2)

1.Institut kompleksnykh transportnykh problem AN SSSR. (Merchant ships--Cargo)
(Railroads--Freight)

KOMAROV, A., nauchnyy sotrudnik; TSurkov, N., nauchnyy sotrudnik; KRAVCHENKO, V., nauchnyy sotrudnik.

Combined operational technology for rail and maritime transportation.

Mor. flot 19 no.2:13-17 F '59. (MIRA 12:3)

1. Institut kompleksnykh transportnykh problem AN SSSR. (Transportation)

KRAVCHENEO, V.S., doktor tekhn.nauk; OBRAZTSOV, A.P., kand.tekhn.nauk;

SENENOV, V.M., kand.tekhn.nauk; KLEYMENOV, Ye.I., inzh.; THIFONOVA,
M.G., inzh.

Use of high-frequency currents for unloading frozen ores. Zhel.dor.
transp. 42 no.11:63-64 N '60.
(Ore handling) (Induction heating)
(Railroads...Freight...Cold weather operations)

THE BASIC FORMS OF COMBINED TECHNOLOGY OF THE OPERATION
OF RAILROAD AND WATER TRANSPORT IN WINED COMMUNICATIONS."

MOSCOW, 1961. (STATE SCI ECON COUNCIL OF THE COUNCIL OF
MINISTERS USSR, INST OF COMPLEX TRANSPORTATION PROBLEMS).

(KL, 3-61, 216).

219

KRAVCHENKO, V.S., kand. tekhn. nauk, otv. red.

[Technical and economic problems of developing transportation; transactions of a conference of young specialists] Tekhniko-ekonomicheskie voprosy razvitiia transporta; trudy konferentsii molodykh spetsialistov. Moskva, In-t kompleksnykh transportnykh problem. No.3. [Problems of improving the organization of the transportation process] Voprosy sovershenstvovaniia organizatsii perevozochnogo protsessa. 1963. 186 p. (MIRA 17:7)

SKALOV, Konstantin Yur'yevich, kand. tekhn. nauk, red.; ZUBKOV,
Mikhail Nikolayevich, inzh.; KRAVCHENKO, Vladimir
Silayevich, kand. tekhn. nauk; NIKITINA, Vera Nikolayevna,
Inzh.; PERSIANOV, Vladimir Aleksandrovich, kand. tekhn.
nauk; DLUGACH, B.A., red.

[Port junctions and terminals; their layout and operation]
Portovye uzly i stantsii; ustroistvo i ekspluatatsiia.
Moskva, Transport, 1965. 197 p. (MIRA 18:4)

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CIA-RDP86-00513R000826310004-7

L 02349-67 EWT(m)/EWP(t)/ETI IJP(c) JI ACC NR. AR6025737 80

SOURCE CODE: UR/0058/66/000/004/A069/A069

AUTHOR: Kravchenko, V. S.; Andreyeva, A. A.; Kuznetsov, F. A.

TITLE: Influence of substrate finishing conditions on the quality of epitaxial film

of germanium in the chloride method

SOURCE: Ref. zh. Fizika, Abs. 4A585

REF SOURCE: Sb. Simpozium. Protsessy sinteza i rosta kristallov i plenok poluprovodnik. materialov, 1965. Tezisy dokl. Novosibirsk, 1965, 15-16

TOPIC TAGS: germanium, epitaxial growing, semiconducting film, surface finishing

ABSTRACT: An investigation was made of the influence of the preparatory operations prior to growing on the perfection of epitaxial germanium films. The perfection of the films was investigated as a function of the conditions for finishing the substrates of Ge in hydrogen and for etching the latter in a mixture of dry hydrogen chloride with hydrogen. It is found that when the substrates are treated in hydrogen at 850C, the optimal treatment time is 40 minutes. When the substrates are polished by etching with a mixture of hydrogen chloride and hydrogen, mirror-smooth films containing no stacking faults are obtained. [Translation of abstract]

SUB CODE: 20

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KRAVSHENKO, V.S.

KARVCHENKO, V. S.

USSR/Mines and Mining - Equipment Electrical Equipment Jun 1947

"Safety in the Use of "lectricity for Underground Mines," L. V. Gladilin and V. S. Kravchenko, Institute of Mining, USSR Academy of Sciences, 2pp

"Gornyy Zhurnal" Vol CXXI, No 6

Usually power of 500 - 550 watts is used for electrification of ferrous and nonferrous mines in the USSR -- 350 watts is used in coal mines. Recommends various safety features to be adopted in mines.

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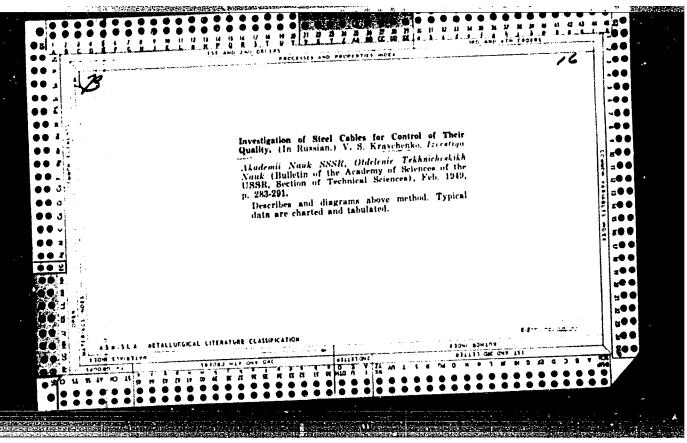
KRAVCHENYO, V.S.

"Teleregulation and Remote Control in Mines." From book, <u>Basic Problems</u> for the Reconstruction and <u>Development of the Donbass</u>. Editor, A.M. Terpigorev. Ugletekhizdat, 1948

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AVCHENKO, V. S.		
	Cables, Steel Testing Equipment, Electrical "Electromagnetic Methods of Controlling the Strengt of Steel Cables," V. S. Kravchenko, Inst of Mining Acad Sci USSR, 6 pp "Gor Zhur" No 9 Describes regnetic methods for checking strength of Steel Cables are gnetic methods for check	h ·
	Describes n'emetic methods for theoritis worn steel cable.	
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KRAVCHENKO, V.S.

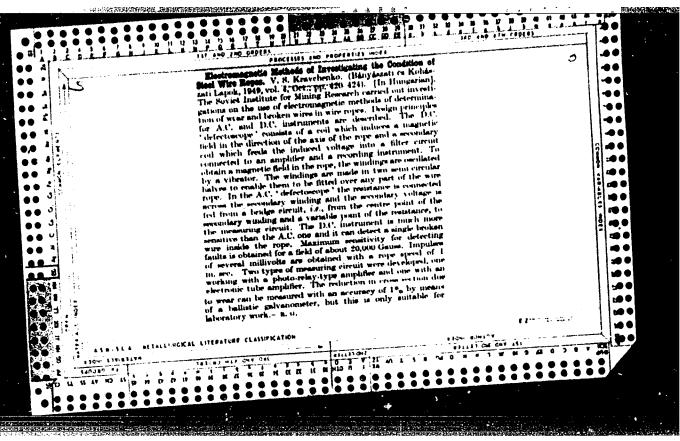
"The Probable Nature of the Ignition of Methane by Electric Sparks and Evaluation of the Spark Safety Mine Electric Circuits." From book Mine Aerology and Labor Safety in Mines, Ugletekhizdat, 1949.

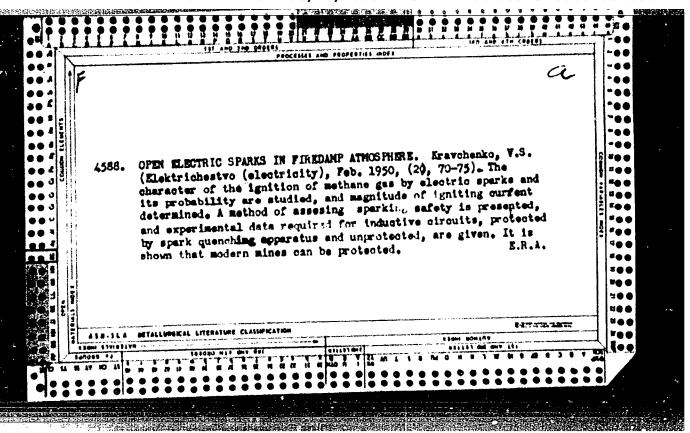


WRAVCHENKO, V. S.

"Open Electric Sparking in an Inflammable Mine Atmosphere,", Elektrichestvo, No.2, 1949.

Inst. of Mining, AS USSR





KRAYCHENKO, V. S.

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USSR/Electricity - Spark Protection

Sep 52

"Flammability of the Electric Spark," V. S. Kravchenko, Inst of Mining, Acad Sci USSR

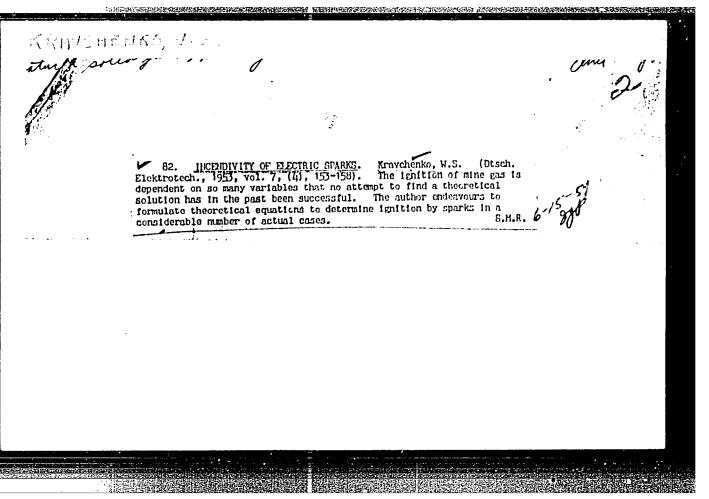
"Elektrichestvo" No 9, pp 21-28

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Establishes that the single criterion detg the flammability of mine gas to elec sparks in mixed (inductive and resistive) circuits is the energy dissipated in the arc. Submitted 18 Jul 51.

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KRAYCHENKO, V. S.

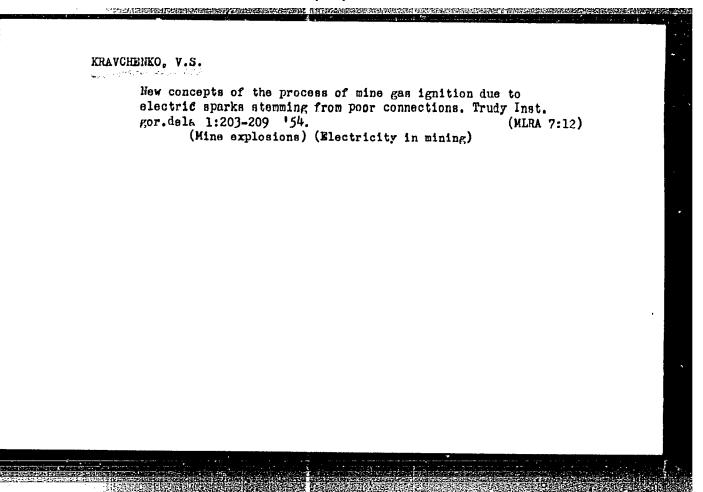
Electrical Engineering Abstracts May 1954 Switchgear O Electiones

1951. Incendivity of electric discharges on breaking of circuits at the commercial, acoustic and smersonic frequencies. V. S. KRAYCHENKO. Elektrichestvo, 1954, No. 1, 59-61. In Russian.

In development work on electric mining equipment designed for operation at acoustic and ultrasonic frequencies it was found that, contrary to widely held opinions, the incendive capacity of sparks is less at these frequencies than at mains frequency. The explanation lies only in considering the dangerous phase of the discharge which is its arcing stage, and in particular, the possible maximum of energy liberated in such a discharge. The author presents an empirical formula for this energy which was derived originally for d.c. conditions. It is found that, e.g. at 100 kc/s the incendive current must be 5-11 times greated than on d.c. Comparative experiments in various inflammable gas mixtures at various frequencies fully confirm the theory. See also Abstr. 1854 (1954).

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XHAVCHENKO, V., inchener.

Cutter-loader "Gorniak" used in anthracite mines. Mast.ugl. 3 no.7:14-15 Jl '54. (WIRA 7:7)

(Coal-mining machinery)
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USSR/Mining - Coal

FD-2929

Card 1/1

Pub. 41-10/17

Author

: Kravchenko, V. S., Moscow

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Title

: On the question of the nature and mechanics of sudden ejection of

coal and gas

Periodical

: Izv. AN SSSR, Otd. Tekh. Nauk 6, 101-108, June 1955

Abstract

: Describes an experiment performed to study the cause and the mechanics of coal and methane ejection when a sealed strata of coal and gas under pressure is suddenly exposed. Concludes that when a coal zone, saturated with gas is exposed, the coal starts to disintegrate as a result and through the action of the escaping gas. The disintegration occurs very rapidly and in the form of a thin front. This "disintegration wave" travels rapidly towards the end opposite the one exposed. At the same time the gas escapes rapidly in the opposite direction causing an explosive ejection of gas and disintegrated coal particles. Drawings, photographs, tables, graphs, formulae. Three references, all USSR.

Institution

Submitted

: April 11, 1955

Kravchen	ko V 5	3
	DEFLOSIVE CAS HIXTRES // Kraychenko, V.S. and Fellsoy, P.A.	
·	(Elektrichestro (Electricity, U.S.S.R.), 1956, (12), 45-52). The investigations reported were carried out with a view to improving considerably the sporking safety of equipment used in mines where firedeep dangers exist; the stipulations are more strict than in British regulations. A very efficient means of rendering inductive circuits practically non-inductive is the use of shunts including selentum or generalize diodes and short-ofrequent turns.	
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	Incx. Gornago dela AN 505R	

KRAVCHENKO, V.S.

Searching for new methods of breaking hard rock. Gor. shur. no.1: 36-43 Ja 157. (MLRA 10:4)

1. Institut gornogo dela AN SSSR.
(Ultrasonic waves--Industrial applications)
(Electric spark)

Mechanizing and automatizing surface equipment. Mast.ugl. 7 no.4:17
Ap '58. (MIRA 11:4)

1. Uchenyy sekretar' Tekhniko-ekononicheskogo soveta Luganskogo
sovnarkhoza.
(Coal mining machinery)

KRAVCHUNKO V.S

AUTHOR:

Loguntsov, B. M.

TO THE REAL PROPERTY OF THE PR

SOV/30-58-8-33/43

TITLE:

On Problems of Rock Disintegration (Voprosy razrusheniya gornykh porod) Transactions of the Conference in the Mining

Institute (Soveshchaniye v Institute gornogo dela)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 8,

pp. 130 - 132 (USSR)

ATSTRACT:

This coordination conference was held from May, 20 - 22. It was called by the Institut gornogo dela Akademii nauk

SSSR (Mining Institute AS USSR). Representatives of

scientific research institutes, of universities, of planning bureaux and manufacturing plants participated in the work.

The following lectures were held:

B.M.Leybov on methods of evaluating coal structure.

M.M. Protod'yakonov and B.M. Loguntsov on the standardization and the establishment of a uniform scale of drilling work. A.N. Zelenin on a more precise method of the determination of

limit values of rock stress values.

V.S.Kravchenko, A.P.Obraztsov and D.A.Denisov on the application of magnetic high-frequency fields for the breaking

Card 1/2

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On Problems of Rock Disintegration. Transactions of SOV/30-58-8-33/43

up of quartzites from the anomalous magnetic ores from Kursk and from ores of other sites."

A.P.Ostrovskiy, A.I.Gol'binder and A.A.Pavlichenko on New methods of blasting in the drift advance of bore holes. "

M.I.Koyfman on Rules governing the rock disintegration by means of rotating and percussion drillins."

R.M.Eygeles on the dependence of bore thrust on the drill pressure, on the drill speed, on rock properties etc."

Ye.I.Il'nitskaya on mechanical extraction of coal."

N.G.Karatavoy on the specific pressure distribution on the leading edge of the cutter in coal extraction."

At the end of the conference it was emphasized that the majority of research work which has hitherto been conducted was entirely of an experimental nature. Theoretical and experimental research is to be intensified in the future.

Card 2/2

S0V/110-56-9-17/20

- AUTHORS: Kravchenko, V.S. (Doctor of Technical Science) and Ul'yashchenko, V.E. (Engineer)

TITLE: A Study of Explosion-proof Electrical Equipment in an

Atmosphere of Explosive Gas (Vzryvobezopasnost' elektrooborudovaniya v atmosfere vzryvehatykh gazov)

PERIODICAL: Vestnik Elektropromyshlennosti,1958, Nr 9, pp 69-74 (USSR)

ABSTRACT: Heavy-current electrical equipment is usually made flameproof by the provision of an explosion-proof casing
having flanges with gaps of such dimensions that gases,
expelled to relieve the internal pressure formed when an explosion occurs, are cooled down before reaching the surrounding explosive atmosphere. Recent Soviet work has clarified the mechanism of flame-extinction in narrow gaps and some new properties of explosion-proof casings have been discovered. The critical gap between infinite planes at which flame propagation ceases depends primarily on the properties of the burning mixture, particularly the energy of activation, the maximum flame temperature, the thermal conductivity of the gas and the rate of propagation of the flame relative to the products of combustion. Theoretical equations for the critical gap are written, but they give

Card 1/6

SOV/110-58-9-17/20 A Study of Explosion-proof Electrical Equipment in an Atmosphere of Explosive Gas

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only the order of magnitude for different gases. It is clear that the reason why the material nature of the flange has little effect on the flame-suppressing efficiency is that the heat-transfer is mainly governed by the thermal conductivity of the gas. The effects are more complicated in the closed casings met in practice than they are in the theoretical infinite gaps. There are considerable increases of pressure and temperature inside the casing, so that the gaps must be smaller. In experimental work on explosionproof gaps the variability of the effect of explosion propagation is important. A special test rig was made up, as schematically illustrated in Fig 3, and consists of a special spherical casing of 2.5 litres for determining safe gaps, with a controlled gap between the flanges. This was filled with an explosive-mixture and placed in a large (220 litres) explosion chamber containing the same explosive mixture. The mixture inside the sphere was ignited by a magneto spark. It was found that for a given set of conditions an explosion could occur only occasionally, for

A Study of Explosion-proof Electrical Equipment in an Atmosphere of

example, only once in 60 tests, and in one case only once in 167 tests. It is usually considered that a gap is safe if no explosion occurs in a certain number of tests. In practice a safety factor of 21% or so was allowed in gap length. Tests made in the TsNIPO served as a basis for a more reliable method of determining safe gaps. An attempt was first made to establish a relationship between the probability of an explosion being transmitted and a factor governing the intensity of the source of ignition, such as the size of the flange gap. Similar work was recently done in England by Bruce, but later tests were not in accordance with the linear relationship that he established. Our tests were made in hydrogen, acetylene and propane. Only a limited number of tests could be made and we had to be satisfied with 3 - 5 positive results in about 300 tests. seen from the results given in Fig 4 that a reliable relationship was nevertheless obtained. The tests con-Card 3/6 firmed the validity of the law of probability of ignition for ignition sources of unstable intensity.

A Study of Explosion-proof Electrical Equipment in an Atmosphere of

relationship between the statistical probability of transmission of emplosion and the size of the flange gap is given in Fig 5 and the corresponding formula in equation (5). This relationship forms a basis for a new method of determining the safe gap. A method is given of determining the relationship between the probability of explosion transmission and the length of gap from experimental data. A procedure is then offered for finding a value of gap length that corresponds to a given low value of explosion probability. The relevant calculations were made by L.M. Bol'shov at the Mathematical Institute imenical step of the Academy of Science of the USSR. Formula (8) that enters into this formula are given in Table 1. The procedure was used to determine safe flange gaps for very with propane. The most explosive concentrations of these gases in air are given in Fig 6. The safe gaps were calculated by means of formula (8) for an explosion

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SUV/110-58-9-17/20 . A Study of Explosion-proof Electrical Equipment in an Atmosphere

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probability of 10-6 and gave the dimensions recorded in Table 2. The corresponding results of explosion tests are given also. It will be seen that even if the safety factor of 2 is allowed in the gap length, it is practicable to manufacture some kinds of explosion-proof equipment for hydrogen/air mixtures. Explosion-proof enclosures can also be made for acetylene atmospheres, provided the volume is not greater than 0.25 litres. On the basis of this work the Elektrosila Works has developed and put into series production an explosion-proof lighting fitting for hydrogen/air atmospheres and has developed an inflammable-gas indicator for hydrogen and acetylene atmospheres. Previous authors have pointed out that explosion-proof equipment may become unsafe if prolonged power-arcs occur inside it. The way in which this happens is discussed, leading to the conclusion that the problem cannot be solved merely by suitable design of Card 5/6 the casing but requires that appropriate electrical

A Study of Explosion-proof Electrical Equipment in an Atmosphere of Explosive Gas

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protective equipment be used to cut off the supply quickly in such cases. Additional safety measures are the use of arc-resisting insulation, increased clearances between live parts and periodical checking of insulation resistance.

There are 2 tables, 6 figures and 6 references, 5 of which are Soviet.

SUBMITTED: February 17, 1958

1. Electrical equipment--Performance 2. Explosive gases--Safety measures 3. Electrical equipment--Test methods 4. Electrical equipment--Safety measures

Card 6/6

KARPOV, Yevgeniy Fedorovich; KRAYCHENKO, Vladimir Sergeyevich, doktor tekhn.
nauk; LEYBOV, Ruvim Mojzeyevich, doktor tekhn.nauk; SHEYNBERG,
Samuil Davydovich; MIRSKAYA, V.V., red.izd-va; KOROVENKOVA, Z.A.,
tekhn.red.; BERESLAVSKAYA, L.Sh., tekhn.red.

[Automatic protective devices in mines] Avtomaticheskie shakhtnye zashchitnye ustroistva. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu. 1960. 111 p.

(MIRA 13:7)

(Electricity in mining--Safety measures)

TITLE:

s/180/60/000/03/025/030

AUTHORS: Kravchenko, V.S. and Khaleyev, E071/E333 (Noscow)

Some Relationships in the Inflammability of Explosive

Mixtures of Saturated Hydrocarbons with Air

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1960, Nr 3, pp 133-139 (USSR)

ABSTRACT: The relationships described in the paper were found during the authors' investigations on spark safe currents in electrical circuits in an explosive atmosphere of multicomponent mixtures of hydrocarbons of CnH_{2n+2} series.

On the basis of their own experiments and with two and multi-component mixtures of alkane series and literature data, the authors established that the most dangerous concentrations of hydrocarbons in air are inversely proportional to the square roots of their specific (or molecular) concentrations. Similar relationships were found to hold in respect of minimal current which on breaking of the circuit would ignite such mixtures. Thus, a direct relationship exists between the most dangerous concentrations of hydrocarbon-air explosive mixtures and minimal igniting currents.

Card1/3 minimal igniting currents. Using this relationship one can

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Some Relationships in the Inflammability of Explosive Mixtures of Saturated Hydrocarbons with Air

determine the most dangerous concentrations of any explosive mixture, lower and upper explosive limits and safe currents on the basis of the same data for methane. A comparison of calculated and determined most dangerous concentrations of alkane-air explosive mixtures and their dependence on the specific gravity of the explosive component are given in Table 1 and Figure 1; the dependence of igniting currents for gas and vapour air mixtures of saturated hydrocarbons on their specific gravity - Table 2 and Figure 2 (probability of ignition $p = 10^{-1}$ from steel wire 0.35 mm in dia); the dependence of minimal igniting currents on the dangerous concentration of explosive component - Figure 3; the dependence of the probability of ignition of various hydrocarbon-air mixtures by circuit-breaking currents .. Figure 4; the probability of the appearance of a mixture of hydrocarbons of various specific gravities for a mine, situated in a neighbourhood of oil-bearing strata - Figure 5. It is concluded that the relationships established can be used for calculating

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Some Relationships in the Inflammability of Explosive Mixtures of Saturated Hydrocarbons with Air

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minimum igniting and permissible currents and for the evaluation of spark safety of electrical circuits on chemical, petroleum and mining industries susceptible to explosions. There are 5 figures, 2 fables and 6 references, 3 of which are Soviet and 3 English.

SUBMITTED: October 20, 1959

Card 3/3

KRAVCHERKO, V.S., doktor tekhn.nauk; KARPOV, Ye.F., inzh.; BIREHBERG,
I.E., inzh.

Continuous methans-detection relay. Bezop.truda v prom. 4
no.2:22-24 F '60. (MIRA 13:5)

1. Institut gornogo dela AN SSSR (for Kravchenko, Karpov).
2. Giprougla-avtomatizatsiya (for Birenberg).

(Mine gases--Safety neasures)

\$/194/61/000/008/041/092

AUTHORS:

Kravchenko, V.S and Serov, V.I.

TITLE:

A new method of spark protection in remote control and remote signalling installations

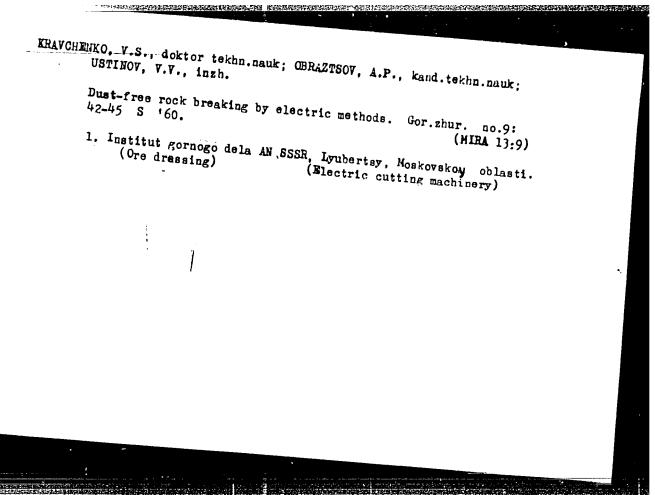
PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961, 48, abstract 8 V363 (Bezopasnost' truda v prom-sti, 1960, no. 11, 20-21)

TEXT: The new method consists in making a small current flow along the spark protecting supply line. The current produces a certain energy build-up (e.g. at a capacitor) at the motor stage. This energy is then dissipated in pulses at a given signal. The described principle makes it possible to extend the applicability of spark protecting lines to high power systems. [Abstracter's

note: Complete translation 7

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S/105/61/000/001/005/007 B012/B059

AUTHORS:

Kraychenko, V. S., Doctor of Technical Sciences, and Sun Yuy-chi, Engineer

TITLE:

Spark-over Strength of High-frequency AC-circuits

PERIODICAL:

Elektrichestvo, 1961, No. 1, pp. 77-80

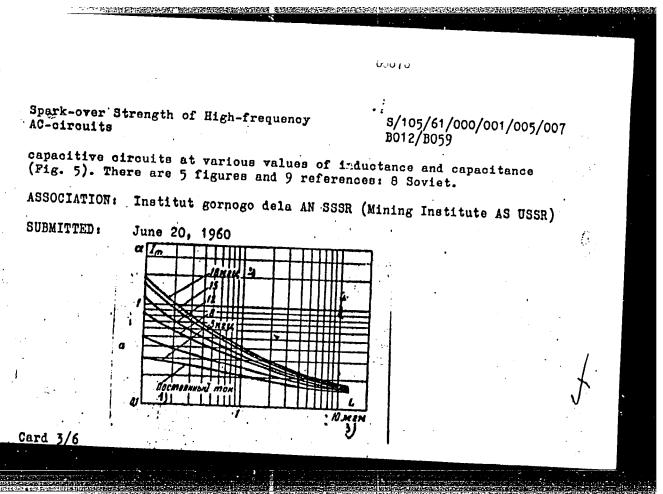
TEXT: The authors of the present paper used the fundamentals of sparkover strength, given in the papers of L. I. Gavril chenko (Ref. 2) and Refs. 1,3,4,5,6,7, to determine the ignitability of discharges occurring on opening of AC-circuits. Fig. 3 illustrates the experimental characteristics for determining the spark-over strength of inductive DC- and ACcircuits on variation of inductance (Fig. 3a) and of frequency (Fig. 3b). In all cases investigated (inductance between 0.1 and 10 millihenries) discharges from opening of DC-circuits were always more dangerous than discharges in high-frequency AC-circuits. The experiments showed that the stabilized capacity voltage, determined at the ignition limit at various values of capacity, characterizes the spark-over strength of the inductive-

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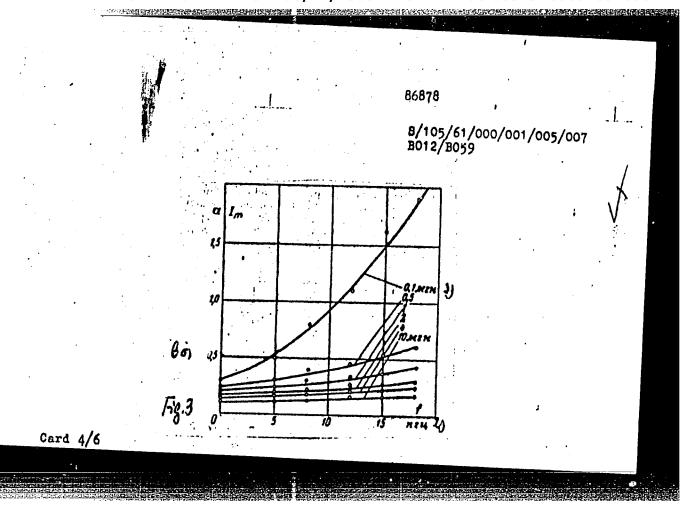
Spark-over Strength of High-frequency

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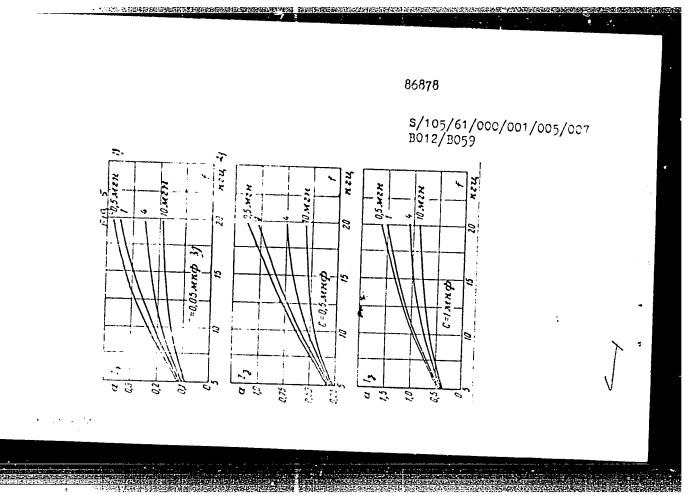
capacitive circuit under the given conditions of ignition. This relation proved to be a unit characteristic of the circuit spark-over strength at frequencies of 5 to 15 kc/sec and at inductances of 1 to 20 millihenries, at resonance and non-resonance parameters. Experiments showed that in a high-frequency circuit with inductance and capacitance ignitability of the discharges in the ranges investigated are entirely determined by the energy of these discharges, independent of changes in frequency or other circuit parameters. The investigation of the ignitability of discharges occurring on opening of high-frequency circuits proved the principle of the constant least ignition energy of these discharges (within the ranges investigated) to be true, This investigation also made it possible to write down the ignition conditions of discharge in an inductive-capacitive circuit in mathematical form: Equation (4): $I_{min} = \omega \sqrt{CA_{min}}$, where I denotes the effective current with open terminals, ω the angular frequency, A_{\min} the least energy causing spark-over, and C the capacitance. Calculations and experimental data offered the possibility of explaining the effect of frequency on the least ignition currents in the inductive and inductive-



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B012/B059

Let in an inductive circuit: 1) DC, 2) kc/sec, 3) millihenry.

The pictory is the inductive-capacitive circuit before opening of the circuit requency at various values of inductance and inductance and inductance. 1) millihenry, 2) kc/sec, 3) microfarad.

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3/196/62/000/010/004/035 E073/E155

AUTHORS:

Kravchenko, V.S., and Serov, V.I.

TITLE:

New explosion chamber for testing electrical circuits for safety against sparking

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.10, 1962, 16, abstract 10 A95. (Vezopasnost'

truda v prom-sti, no.11, 1961, 20-21)

TEXT: Institut gornogo dela im. A.A. Skockinskogo (Mining Institute imeni A.A. Skochinskiy) developed an automatic explosion chamber which permits rapid determination of the probability of ignition of explosive gas-air mixtures during closing and opening of electrical circuits (inductive, noninductive and capacitive); the circuit current which is safe from the point of view of explosions can also be determined. The equipment is used by a number of institutes in the gold mining industry, and considerably speeds the development, design and introduction of apparatus to be used in explosive atmospheres.

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Abstractor's note: Complete translation.

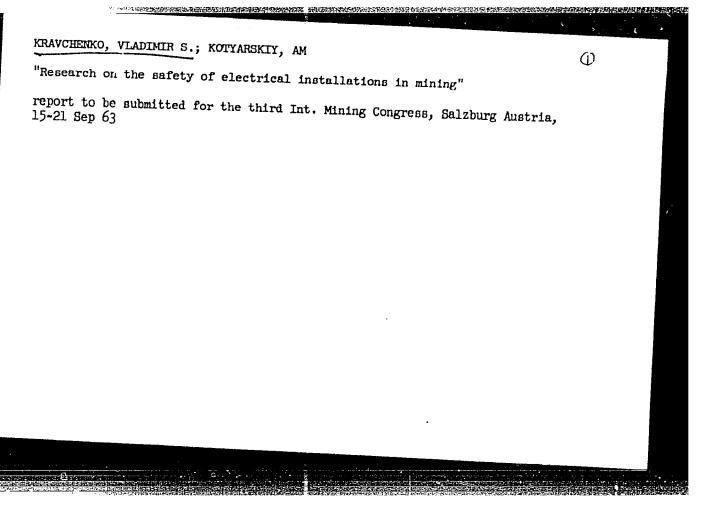
IVANOVSKIY, V., inzh.; KRAVCHELKO, V., inzh. MILKIS, G., inzh.

How automatization works. Sov.shakht. 10 no.3:21-22 Mr '61.

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