20-114-4-25/63 Kurdyumov, G. V., Member of the Academy, Maksimova, O. P., Nikonorova, A. I. The Activating Influence of Plastic Deformation on Martensite AUTHORS: Transformation (Ob aktiviziruyushchem vliyanii plasticheskoy deformatsii na martensitnoye prevrashcheniye) TITLE: Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 4, The present paper is intended, among other things to confirm PERIODICAL: pp. 768-771 (USSR) the opinions on the influence exercised by stresses on the activation of the transformation. The authors investigated the rules of the restoration of the original stability of ABSTRACT: austenite on the occasion of annealing at gradually increasing temperature. The change of the stability of the austenite resulting from a plastic deformation or from the following annealing was judged by the strength of the magnetometric effects in the temperature domain below room temperature on the occasion of the transformation of austenite into martensite. It was assumed that the activating influence exercised by the deformation can easily be determined in such alloys which possess sufficiently marked elastic properties. The authors Card 1/3

CIA-RDP86-00513R001031700048-6

137-58-6-13268

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 300 (USSR)

AUTHORS: Maksimova, O.P., Golovchiner, Ya.M., Lyubov, B.Ya.,

Nikonorova, A.I.

Fundamental Trends in Investigations of the Theory of Mar-TITLE:

tensite Transformation (Osnovnyye napravleniya issledovaniy

v oblasti teorii martensitnykh prevrashcheniy)

Sb. tr. In-t metalloved. i fiz. metallov Tsentr. n.-i. in-ta PERIODICAL:

chernoy metallurgii, Trans. Amer. Soc. Metals, 1957, Nr 49, pp 427-444. Discuss. 1958, Vol 5, pp 147-160

ABSTRACT: Fundamental problems of the study of laws governing the martensite transformation (MT), the effect of various factors

on it, and the control of the process of MT, also means and methods for the investigation of MT are formulated. Biblio-

graphy: 80 references.

L.V.

1. Martensite--Analysis 2. Martensite--Theory 3. Metals--Transformations

Card 1/1

Regularities in the kinetics of martensitic transformations.

speed of transformation of austenite into martensite is a characteristic feature of all phase transformations. Thermal oscillations of atoms in the lattice are therefore one of the basic factors determining the kinetics of martensite transformations. "Athermal" transformations are in reality the result of thermal formation of nuclei which takes place at very high speed under certain conditions (low work of formation of the nuclei at large degrees of super-cooling, high energy of the thermal oscillations at temperatures which are not low enough). Presence of locations which are "prepared" for forming nuclei lead only to an increase in the temperature at which nuclei would form at these locations owing to thermal fluctuations. There are 5 figures and 38 references, 24 of which are Slavic.

SUBMITTED: March 20, 1957.

AVAILABLE: Card 5/5

24-6-2/24

Regularities in the kinetics of martensitic transformations. (Cont.)

Steel containing 0.95% C and 3.5% Mn. (Fig.2 ref.14). Isothermal formation of martensite in this steel was observed in the whole temperature interval of martensite transformation. This case is denoted by 95 73, in Fig. 2. Maximum of N'

Fe-Ni-Mn alloys (shown in the table on p.7 where the first column gives the Russian designation of the alloy and the last column gives the martensite point). Fig.3 shows the initial parts of curves of isothermal martensitic transformation of the alloy H24 **r3** (23.8% Ni, 3.2% Mn) - where M is the amount of martensite, t - is the time in minutes. Fig.4 shows the temperature dependence of the initial speed of isothermal martensitic transformation N, for Fe-Ni-Mn alloys having different martensite point  $T_m$ ; t is the time in seconds. The changes in  $T_m$  have no effect on the position of the lower temperature limits of the transformations (for the three alloys), they all lie near the boiling point of nitrogen.

On the basis of their own results and literary data, the authors conclude that it can be considered as a well proved established fact that the temperature dependence of the

24-6-2/24

Regularities in the kinetics of martensitic transformations. (Cont.)

increasing work of formation of the nuclei, with increasing temperature, is the corresponding factor on the high temperature side as shown in earlier work of the authors (6,7). Steel 85 \(\bigcap\_2\), containing 0.85% C and 2.2% Mn, see Fig.2 (6,7,213). If the cause which makes possible If the cause which makes possible observation of isothermal transformation in the temperature range approaching the martensite point is the high work of formation of martensite nuclei, an increase of the transformation speed should occur with decreasing temperature. To elucidate the problem the experiments were made with this steel, the martensite point of which is about 155 C. It was found that in this steel the initial reduced speed of isothermal transformation N' increases at first with decreasing holding temperatures below the martensite point and then becomes unusually high in the range between room temperature and \_50 C, dropping sharply with further decreases in temperature (Fig.2). It is concluded that the absence of isothermal transformation at room temperatures, and the occurrence of the transformation on cooling only, is Card 3/5 conditioned not by some non-thermal process, but by the higher speed of thermal formation of martensite crystals.

CIA-RDP86-00513R001031700048-6

24-6-2/24

Regularities in the kinetics of martensitic transformations. (Cont.)

Thus, thermal the process of formation of the nuclei. motion appears to be one of the main factors which govern the kinetics of martensitic transformation, as well as other

The alloy of iron and 23% Ni, 34% Mn (5). Isothermal transformation was investigated in the range room temperature to -130 C. As the temperature decreases, the initial reduced speed of isothermal transformation, given by

$$N' = \frac{1}{V_0'} \left( \frac{dV}{dt} \right) = 0$$

at first increases, at -50 C it reaches a maximum, and thereafter decreases and has very small values below -160 C (Fig.1; where V - volume of martensite, formed at the starting moment of the isothermal process (in %), Vo - that part of the volume of the specimen which can be transformed at the given temperature (in %), t - duration of the isothermal process). If the low energy of thermal oscillations Card 2/5 is the factor limiting the speed of formation of nuclei on the low temperature side of the maximum, then the rapidly

MAKSIMOVA, O. P

AUTHORS: Kurdyumov, G. V. and Maksimova, O. P. (Moscow), 24-6-2/24

TITLE: Regularities in the kinetics of martensitic transformations. (O zakonomernostyakh kinetiki martensitnykh prevrashcheniy).

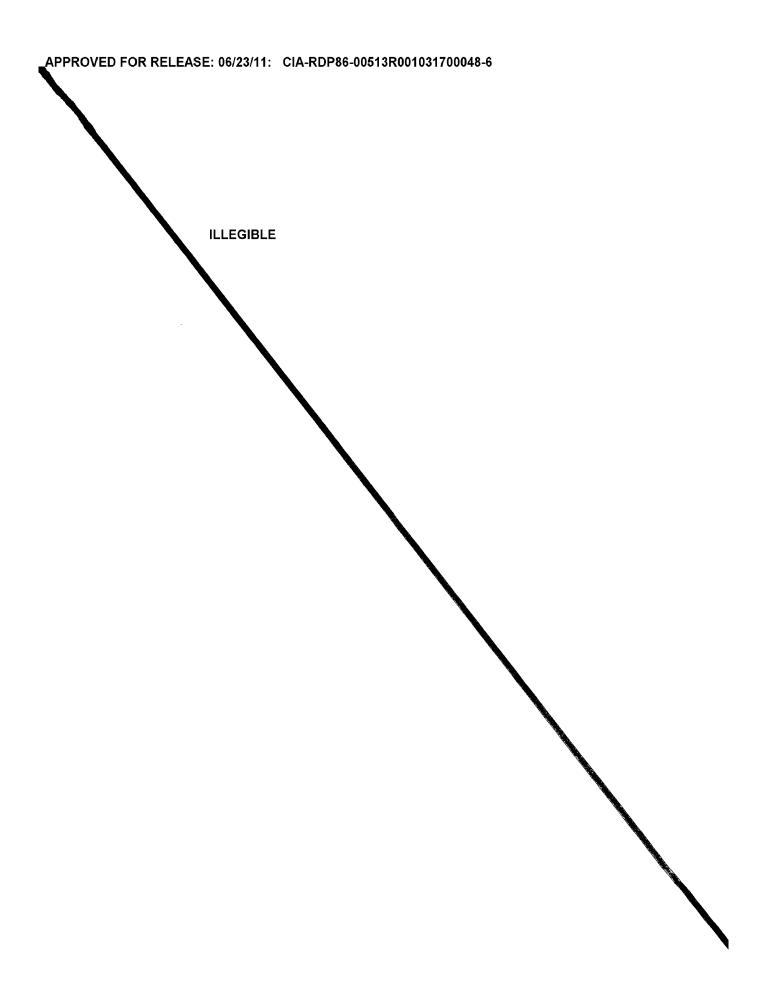
PERIODICAL: "Izvestiya Akademii Nauk, Otdeleniye Tekhnicheskikh Nauk" (Bulletin of the Ac.Sc., Technical Sciences Section), 1957, No.6, pp.4-11 (U.S.S.R.)

ABSTRACT: In earlier work (1 and 2) the authors have shown that at sufficiently low temperatures the speed of martensitic transformations is measurable. Researches carried out by the present authors indicate that in some steels with a low martensitic point T<sub>m</sub> (temperature at which martensitic transformation begins) the transformation of austenite into martensite can be completely halted by rapid cooling in liquid nitrogen, and isothermal transformation of austenite into martensite can be observed at temperatures above the boiling point of liquid nitrogen (3 and 4). It was shown that a definite energy of thermal vibrations of atoms is necessary for the formation of martensite nuclei. At insufficient energy the speed of formation of nuclei is practically zero; as the energy of vibrations increases the

card 1/5 practically zero; as the energy of vibrations increases the speed of formation increases proportionally to exp(-U/RT), where U can be considered as the energy of activation of

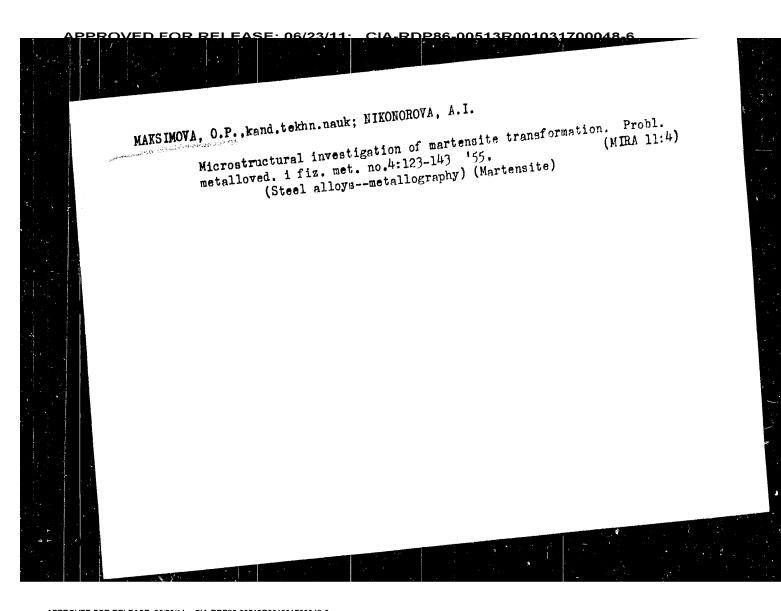
MAKSIMOVA, O.P., kand.tekhn.nauk; NIKONOROVA, A.I.; PGGORELOV, G.K. Effect of hot plastic deformation on the kinstics of martensite transformation in high mickel alloy steels. Probl. metalloved. i fiz. met. no.4:198-204 155. (MIRA 11:4) (Nickel steel -- Metallography) (Deformations (Mechanics) (Martensite)

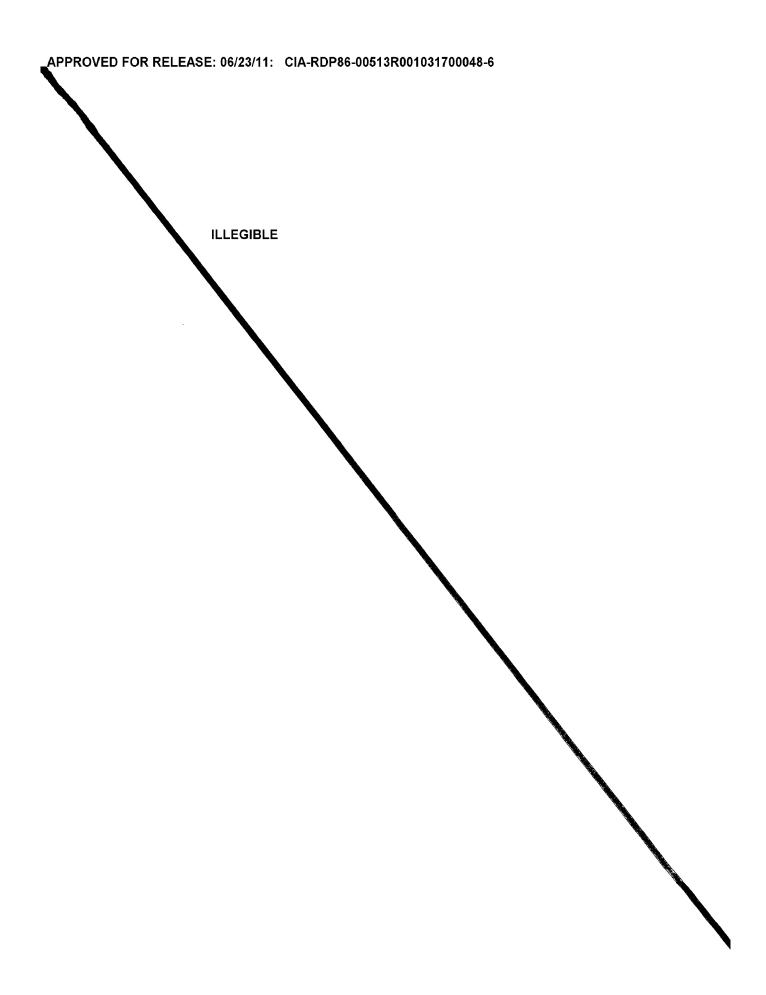
APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700048-6



MAKSIMOVA, O.P., kand.tekhn.nauk; NIKONOROVA, A.I.; POGORELOV, G.K.

Effect of deformation on the rate of isothermal martensite transformation in iron-nickel-manganese alloys. Probl. metalloved. i fiz. met. no.4:144-164 '55. (Metalloyed. (MIRA 11:4) (Iron-nickel-manganese alloys-Metallography)





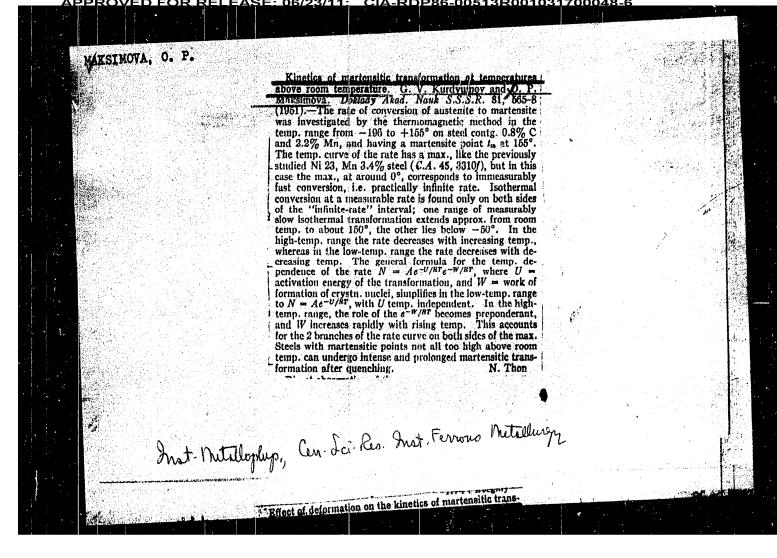
MAKSINOVA, O. Kinetics of changes in martensite. Tr. frc. the Russian. p. 193.

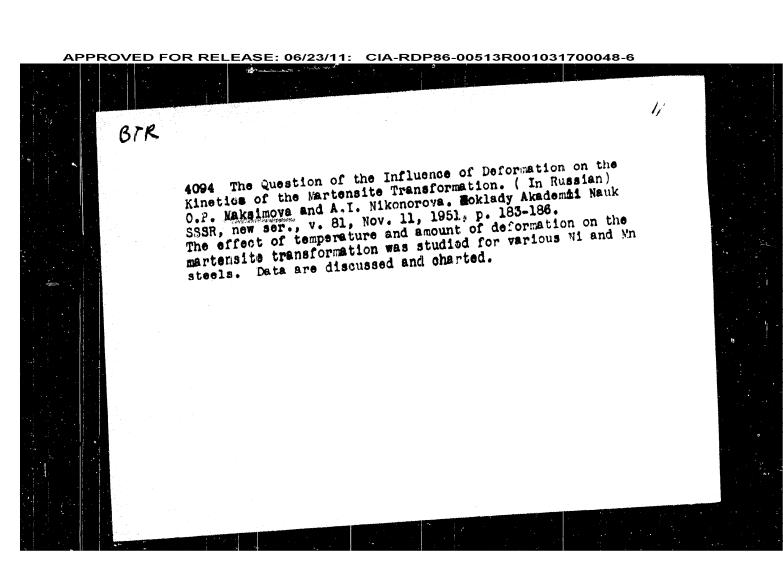
Method of determining austenite granules in modium-carbon and alloy steel by welding the affected area. p. 214.

Vol. 5, No. 3, 1954.

STROINOLLEKTHOTECHNOKY CASCPIS TECHNOLOGY Fratislava, Czechoslovakia

So: East Europeon Accessions, Vol. 5, No. 5, May 1956





RUEDIUMOV, G.V.; MAKSIMOVA, O.P., kand. tekhn. nauk.

Martensite nuclei formation process. Probl. metalloved. i fiz. met. no.2:129-134 \*51. (MIRA 11:4)

1. Chlen-korrespondent & SSSR (for Kurdyumov). (Metal crystals) (Martensite)

MAKSIMOYA, O.P.

KULDYUMOV, G.V.; MAKSIMOVA, O.P., kand. tekhn. nauk,

Transformation of austenite to martensite at low temperatures.

Probl. metalloved. 1 fiz. met. no.2:64-97 \*51. (MIRA 11:4)

1. Chlen-korrespondent AN SSSR (for Kurdyumov).

(Metals at low temperature) (Phase rule and equilibrium)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700048-6 The effect of plastic deformation on the martensite reaction in a 0.6 C, 7.1 Mn steel and in a 23% Nl, 3.4 Mn alloy of he was studied to test the hypothesis that this reaction proceeds by nucleation and growth. The steel and alloy were deformed by compression just before testing in a magnetometer. The deformed specimens were then cooled to cause the martensite reaction to proceed, and the anti, of reaction was detd, by a magnetometer. The results were verified by a ray and intergraphic studies. Deformed specimens of the steel showed 3 effects. Above along 3% deformation and trached 32% transformation at about 40% deformation. The martensite point was lowered from about 50% to 80% and leveled off at this value at about 30% deformation. The martensite reaction became sluggish in the deformed specimens. The total anti, of martensite formed as a result of Transformation of deformed austenite into martensite.
V. V. Kurdyumov, O. P. Maksimova, and T. V. Tagunova.
Doklady Akad. Nauk 73, 307-10(1950); cf. C.A. 43, 80c. martensite traction became sluggish in the deformed specimens. The total amt, of martensite formed as a result of both deformation and cooling was 40% at 0% deformation, decreased to 18% at about 25% deformation, and increased to 32% at 56% deformation. At about 60% deformation no formation of martensite occurred during cooling. Deformed specimens of the alloy showed similar, more pronounced effects except that no lowering of the martensite point was observed. At 20% deformation only about 0.2% as much total transformation occurred as at 0% deformation. The kinetics of the isothermal martensite reaction at temps in the range -15 to -10% were studied on specimens of the alloy deformed 0% and 14%. At all temps, the 14% alloy showed an initial rate that was about 0.1 as fast as the 0% alloy, but the final aint, of reaction was comparable for the alloy, but the final ant, of reaction was comparable for the alloy, but the final ant, of reaction was comparable for the two specimens. The activation energy was 600 cal. mol. for both. Thus, the essential nature of the reaction is not changed by deformation.

A. G. Guv

Work of formation of martensite nuclei. G. V. Kurdynman of the state o

MAKSIMOVA, O. P.

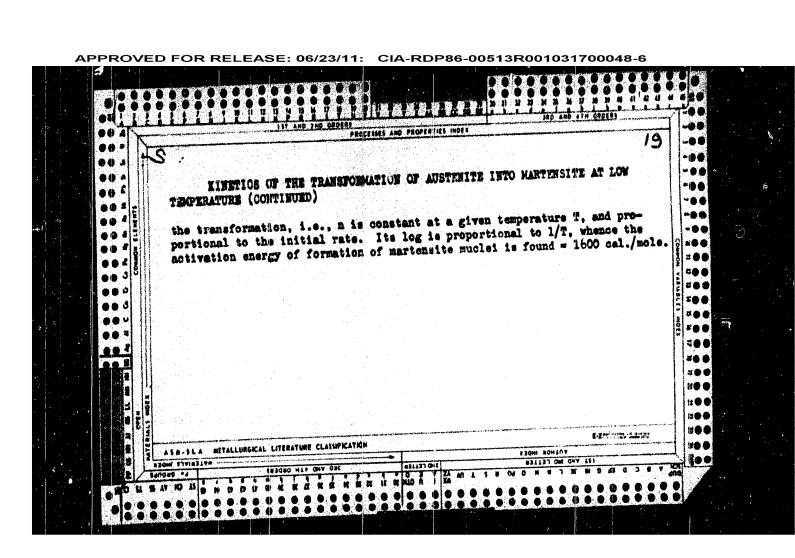
B.T.

B.M.I.

2581

G. V. Kurdyumov, O. P. Maksimova and T. V. Tagunova, On the Transformation of Deformed Austonite into Martensite.

DOKLADY AKADEMII NAUK SSSR, vol. 73, 1950, No. 2, pp. 307-310; 2200 words.



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amount of martensite is formed isothermally. The kinetic curves of the degree of transformation as a function of time, increase in steepness and height with the temperature falling from -64 to -133°, then decrease with further falling temperature. At temperatures above the optimum temperature, the prodese comes to a halt soon and at a fairly early stage of the transformation; on approaching the optimum temperature (from either side), the decay of the transformation sets in progressively later and proceeds progressively slower, 1.c., the initial rate is preserved longer; thus at -166, the rate remains constant during 10 min. The summary degree of transformation, in all arrests was about 20%. Similar curves, with a maximum of rate and of final degree of transformation at & given temperature, were found with various other manganese steels with different manganese and carbon contents. Inhibition of the austenite--martensite transformation through rapid cooling to -194 , and its renewal through stepwise warming up, were also observed on plain steel with 1.6% carbon, quenched in alkaline aced water so as to contain about 80% austenite; the summary transformation in all arrests on stepwise warming up amounted to about 10%. Transformation begins to be observable at about -- 100; rates and extents of transformation are perfectly measurable at -125, --135, and --1360

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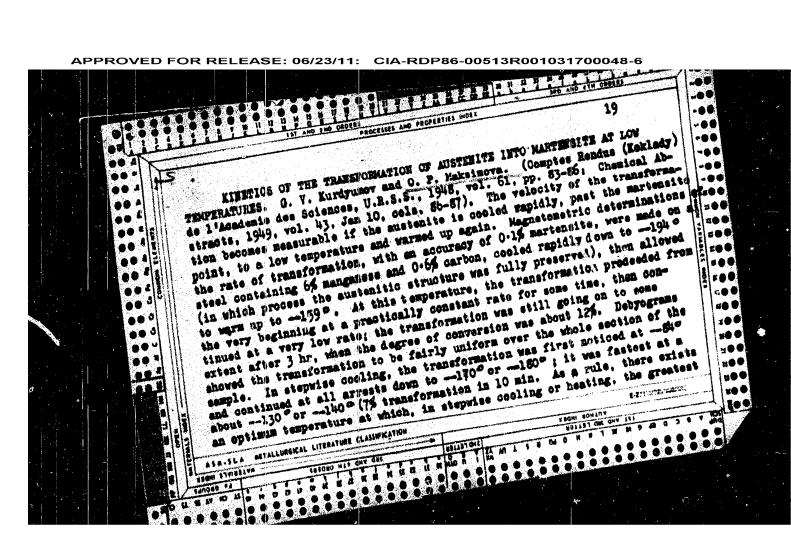
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If n is the number of numeli formed in unit time per unit volume, we mean volume of the martensite crystals, V = volume of martensite formed in the isothermal arrest over the time t, Vo = limiting volume of martensite which can be formed at the given temperature, then l = (V/Vo) = e - nvt. This equation is in agreement with the experimental data, at least over the first half of



MAKSIMOVA, O.F; OKHRIMENKO, A.P.; KUBYAK, O.D. Improvement of work processes in modern steel smelting establishment. Vrach.delo no.3:110-112 Mr \*63.5. (MIRA 16:4) 1. Kiyevskiy institut gigiyeny truda i professional'nykh zabolevaniy. (SMELTING-HYGIENIC ASPECTS)

ZHIRNOVA, G.Ye., kand.med.nauk; MAKSIMOVA, O.F., kand.med.nauk; MRN SHOV, A.A., kand.med.nauk; BAKALINSKAYA, Ye.D., nauchnyy sotrudnik

Sanitary and hygenic condition of modern open-hearth plants and health measures. Vrach.delo no.12:1305-1307 D 159.

1. Kiyevskiy institut gigiyeny truda i professional nykh zabole-

(STEEL INDUSTRY--HYGIENIC ASPECTS)

MAKSIMOVA. O.F. [Maksymova, O.F.]

Changes in basic cortical processes with the aging of man [with summary in English]. Fiziol. zhur. [Ukr.] 4 no.2:156-161 Mr-Ap '58. (MIRA 11:5)

1.Kiivs'kiy institut gigiyeni pratsi i profzakhvoryuvan', fiziologichniy viddil. (CEREBRAL CORTEX) (AGE)

MAKSIMOVA, O.F., kand.med.nauk

Peculiarities of the acoustic motor reaction in persons of different ages. Vrach.delo no.1:1305-1306 D 158. (MIRA 12:3)

1. Kievskiy institut gigiyeny truda i professional'nykh zabolevaniy. (REACTION TIME (PSYCHOLOGY))

MAKSINOVA, O.P.

Effect of dynamic work on muscle capacity in man at various ages. Fiziol. shur. (Ukr.) 1 no.4:64-69 J1-Ag '55. (MIRA 9:11)

1. Kiivs'kly institut gigieni pratsi i profzakhvoryuvan', viddil fiziologii.

(MUSCLES, physiology,

eff. of work on musc. working capacity in various ages)

(WORK, effects.

on musc. working capacity in various ages)

(AGING, physiology,

age factor in musc. response to work)

## MAKSIMOVA, O.F.

Changes in the capacity for unscular work in people of various ages during and after static work. Fiziol.zhur. (Ukr.) 1 no.1:91-97

Ja-F \*55. (MIRA 9:9)

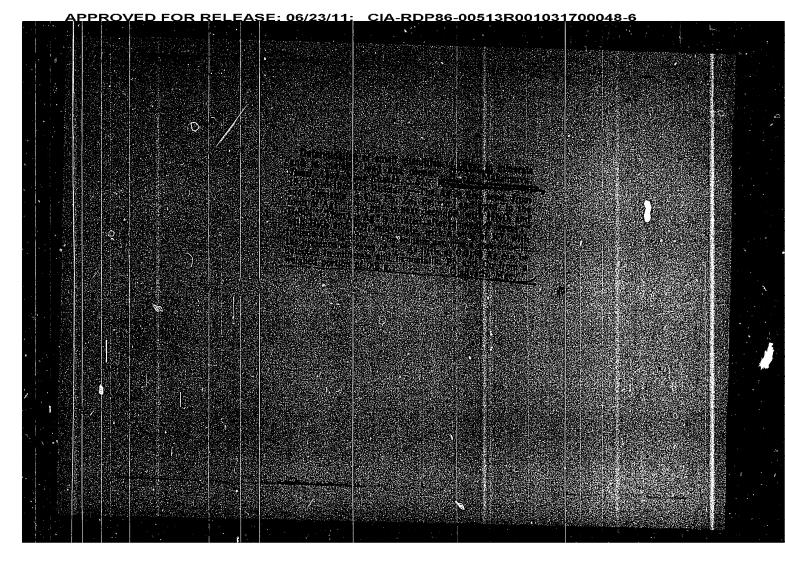
l. Kiivs'kiy institut gigiyeni pratsi i profzakhvoryuvan', Viddlil fiziologii.
(AGE) (FATIGUE) (MUSCLES)

MAKSIMOVA, O. F.

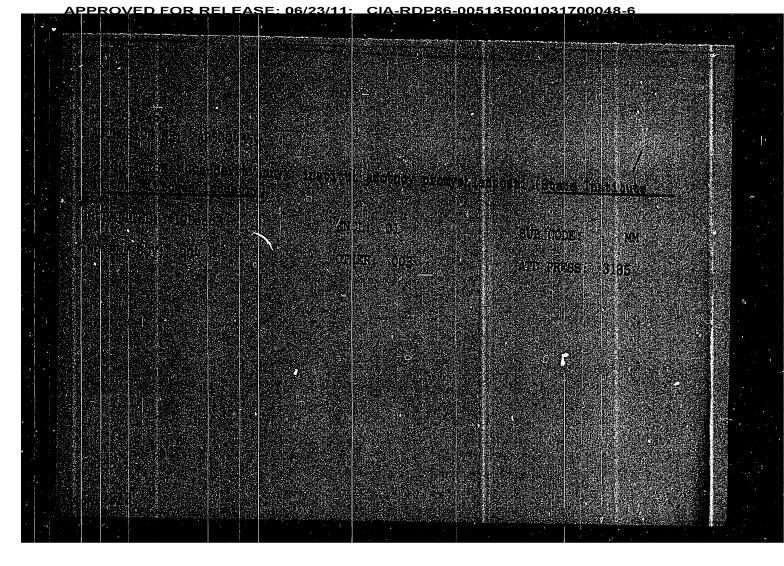
"Growth Changes in the Work Capability of Man." Cand Med Sci, Kiev Inst of Labor Hygiene and Occupational Diseases, Kiev, 1954. (RZhBiol, No 8, Apr 55)

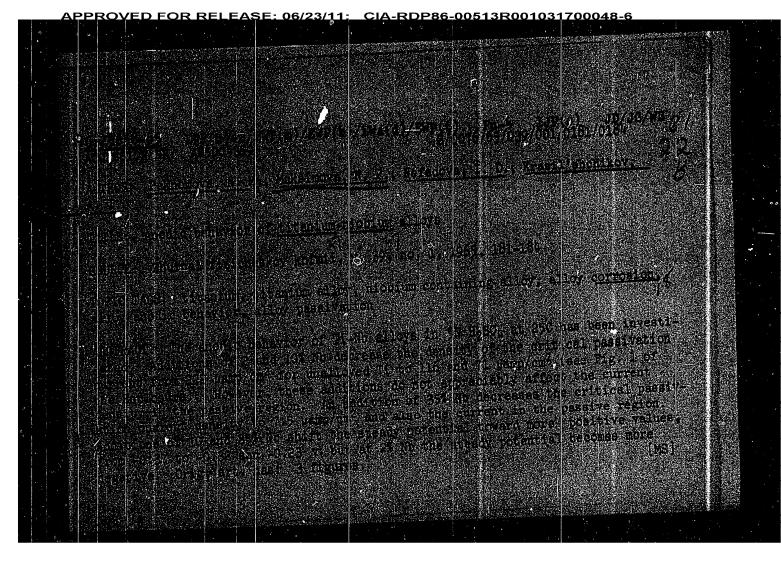
SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

KHVOSTOVA, V.A.; MAKSIMOVA, N.V. New find of ixiolite. Dokl. AN SSSR 148 no.2:424-426 Ja 163. (MIRA 1612) 1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov. Predstavleno akademikom D.I. Shcherbakovym. (Kalba Range--Ixiolite)



EASE: 06/23/11: CIA-RDP86-00513R001031700048-6 MAKSIMOVA, N.S.; NAYDIN, D.P. About the international stratigraphic dictionary. Sov.geol. 2 no.12:130-132 D 159. (MIRA 13:5) 1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. (Geology, Stratigraphic--Dictionaries)





APPROVED FOR RELEASE: 06/23/11; CIA-RDP86-00513R001031700048-6

## MAKSIMOVA, N. P.

Outstanding Soviet scientist N. A. Chernogubov. Vest. vener., Moskva no.4:34-35 July-Aug 1951. (CLML 21:1)

1. Student. 2. Of the Clinic for Skin Diseases (Director -- Prof. F. N. Grinchar), Second Moscow Medical Institute imeni I. V. Stalin.

MIRONOV, V.F.; MAKSIMOVA, N.O. and the specific compounds. Tay. AM SSSR. Ser. khim. no.12: 2193-2196 165. (MIRA 18:12)

1. Institut organicheskor khimii im. N.D. Zelinskoge AN SSSR. Submitted April 2, 1965.

IVANOV, V.S.; MAKSIMOVA, N.M. Reversal of the crotonization of acetaldehyde over S.V. Lebedev's catalyst. Zhur.ob.khim. 30 no.10:3171-3174 0 161. (MIRA 14:4) 1. Leningradskiy gosudarstvennyy universitet.
(Acetaldehyde) (Crotonald (Crotonaldehyde)

IVANOV, V.S.; MAKSIMOVA, N.M. Reversibility of the reaction of crotonization over the S.V.Lebedev catalyst. Vest LGU 16 no.22:151-153 '61. (MIRA 14:11) (Crotonaldehyde) (Acetaldehyde) (Catalysts) (MIRA 14:11) APPROVED FOR RELEASE: 06/23/11; CIA-RDP86-00513R001031700048-6

## MAKSIMOVA, N.M.

Planning the biology curriculum and scientific and practical work in agriculture for grades 5 and 6. Biol. v shkole no. 6:52-56 N-D '60. (MIRA 14:1)

1. Tomskiy institut usovershenstvovaniya uchiteley.

(Agriculture--Study and teaching)

(Biology--Study and teaching)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700048-6

ZUYKOV, V.Ya.; IVANOV, A.M.; KRISTALL, Z.B.; MAKSIMOVA, N.K.; HOVIKOV, O.P.; POTKOV, G.A.; KRIKUNOV, A.Ye., red.; SELEKHOV, F.M., red.; SHUVALOVA, N.S., red.; ZORINA, G.V., red.; VINOGRADOV, Ye.A., tekhn. red.

[Liquid separators for the food industry; handbook-catalog]Separatory zhidkostnye dlia pishchevoi promyshlennosti; katalog-spravochnik, Moskva, 1962. 86 p. (MIRA 15:10)

1. Moscow. TSentral'nyy institut nauchno-tekhnicheskoy informatsii mashinostroyeniya. 2. Vsesoyuznyy nauchno-issledovatel'skiy i eksperimental'no-konstruktorskiy institut prodovol'stvennogo mashinostroyeniya (for Zuykov, Ivanov, Kristall, Maksimova, Novikov, Potkov).

(Separators (Machines))

TITKOV, N.I.; MAKSIMOVA, N.I.; KORZHUYEV, A.S.; SFERINA, I.D. Method for determining the strength and character of the adhesion of polymers to rocks. Burenie no.5:16-17 \*64. (EIRA 1885) 1. Institut geologii i razrabotki goryuchikh iskopayemykh, Moskva.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700048-6

MAKSIMOVA, N.I.; TITKOV, N.I.; KORZHUYEV, A.S.

Strength of cohesion between some resins and clays. Koll. zhur. 26 no.3:396-397 My-Je '64. (MIRA 17:9)

1. Institut geologii i razrabotki goryuchikh iskopayemykh, Moskva.

MAKSIMOVA, N.I. Use of cement grouting with a water glass additive for plugging fractured rocks. Neft. khoz. 39 no.2:20-22 F '61. (MIRA 17:2) 1 1.17

MAKSIMOVA, N.I.; SERB-SERBINA, N.N.; TITKOV, N.I.; KORZHUYEV, A.S. Changes in strength of argillaceous rocks subjected to electrochemical treatment. Koll.zhur. 23 no.5:605-614 S-0 '61. (MIRA 14:9) 1. Institut geologii i razrabotki goryuchikh iskopayemykh, Moskva. (Clay) (Electrochemistry)

Accelerated Method for Determining the Mineral Type of Clay 132-1-14/15 ASSOCIATION: Trest "Mosbassuglegeologiya" AVAILABLE: Library of Congress Card 2/2

CIA-RDP86-00513R001031700048-6

MAKSIMOVA, N. I.

AUTHOR:

Mikhaylova, Ye. V.

132-1-14/15

Determining the Mineral Type of Clay TITLE: Accelerated Method for (Uskorennyy metod opredeleniya mineral'nogo tipa glin)

Razvedka i Okhrana Nedr, 1958, # 1, pp 59 (USSR) PERIODICAL:

ABSTRACT:

In the periodical "Razvedka i Okhrana Nedr", # 3, 1956, an article written by N.A. Maksimovich and N.I. Maksimova was published, in which the authors recommended the application of the stepped-up method of determining the mineral type of clay, based on their different absorption properties with regard to alkalies. A comparison of results obtained when determining the mineral type of clay by means of the absorption method and the electronic-microscopic method, showed that from a total of 15 analyses only six tallied, while the results deviated considerably during the ninth analysis. Determination of the type of clay by means of the absorption method and with the aid of color agents did not give comparable data. Consequently, the quick method of determining the mineral type of clay by its absorption indicator has but a limited degree of applicability, and the results obtained must be checked by other methods.

Card 1/2

132-1-8/15

Method of Cementing Test Holes Under Difficult Drilling Conditions

cement of the brand "500", 800 liters of water. Waterglass (90 liters) was used as an agent for speeding up the setting process. Three bore holes were successfully treated by this method.

There is 1 table and 1 figure.

ASSOCIATION: Gosplan RSFSR VIMS Petroleum Institute AS USSR (Institut

nefti AN SSR)

AVAILABLE: Library of Congress

Card 2/2

MAKSIMOVA,

AUTHORS:

Volokitenkov, A.A., Kogan, D.M., and Maksimova, N.I. 132-1-8/15

TITLE:

Method of Cementing Test Holes Under Difficult Drilling Conditions (Sposob tsementatsii razvedochnykh skvazhin dlys oslozbnehnykh usloviy bureniya)

PERIODICAL:

Razvedka i Okhrana Nedr, 1958, # 1, pp 46-48 (USSR)

ABSTRACT:

In some bore holes at the Belgorod district, the flushing liquid was completely absorbed by porous Carboniferous limestone layers. The usual methods of tamping with clay and cement did not plug the crevices. Thus the necessity arose to cement the porous zones by quick-hardening mixtures. As the conveying of quick setting concrete could not be done fast enough through one pipe, a proposal was advanced by Maksimovich, Maksimova and Yermakov, according to which two pipes transported a cement mixture and an agent for speeding up the hardening process to the place of cementing.

According to this method, a tamping device was lowered to the end of the drill stem; the cement mixture was pumped into the porous zone by the conventional manner. The author gives a description of the tamping device and its application. The process of hardening can thus be reduced from the original

48 - 72 to 12 hours.

Card 1/2

The following mixture is used: (for 1.5 - 1.6 cu m) 1,400 kg of building cement of the brand "200", 300 kg of aluminum

MAKSIMOVICH, N.A.; MAKSIMOVA, N.I. Rapid method for determining the mineral type of clays. Razved. i okh.nedr. 22 no.3:35-38 Mr 156. (MIRA 9:7) (Clay-Testing) ZIN'KOVSKAYA, S.I.; MAKSIMOVA, N.I. Drying of coke-oven gas producing shops of the Yasinovka Coke and Coal Chemicals Plant. Koks i khim. no.11:42-44 '63. (MIRA 16:12) 1. Yasinovskiy koksokhimicheskiy zavod.

APPROVED FOR RELEASE: 06/23/11; CIA-RDP86-00513R001031700048-6

L 47382-66 EWT(m)/EWP(j) RM

ACC NR: AP6029021 (4) SOURCE CODE: UR/0413/66/000/014/0023/0023

INVENTOR: Maksimova, N. G.; Mironov, V. F.

ORG: none

TITLE: Method of obtaining m-fluorophenylsilanechlorides. Class 12,

No. 183746

SOURCE: Izobret prom obraz tov zn, no. 14, 1966 23

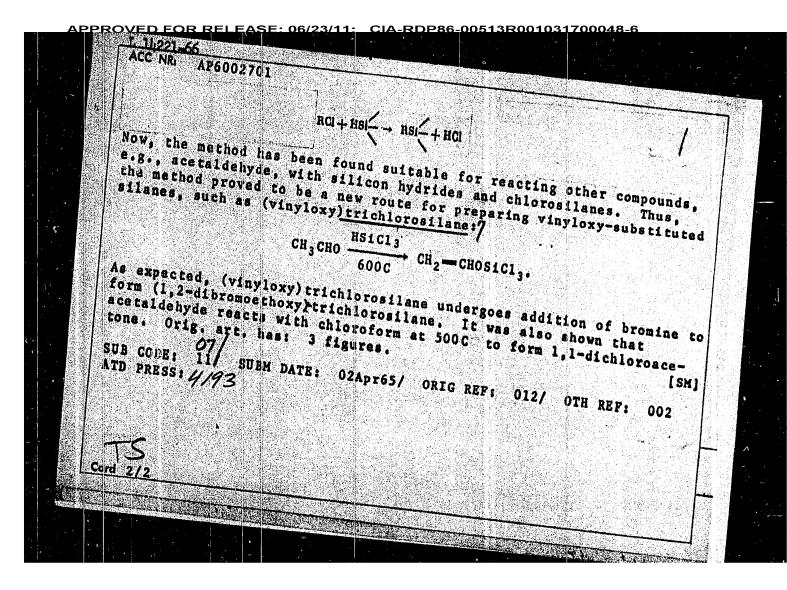
TOPIC TAGS: fluorosilane, silicon hydride

ABSTRACT: An Author Certificate has been issued for a method of obtaining m-fluorophenylsilanechlorides. To simplify the process, the mixture of silicon hydrides and m-fluorochlorobenzene is passed through a heater quartz tube at a temperature of 580—620C. [Translation] [NT]

SUB CODE: 11/ SUBM DATE: 22Mar65/

Card 1/1 mjs

UDC: 547. 419. 5. 07



ACC NR. AP6002701 SOURCE CODE: UR/0062/65/000/012/2193 AUTHOR: Mironov, V. P.; Maksimova, N. G. ORG: Institute of Organic Chemistry im. N. D. Zelinskiy, Academy Sciences SSSR (Institut organicheskoy khimii Akademii nauk SSSR) High-temperature condensation of trichlorosilane and chloroform with certain organic compounds SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 12, 1965, 2193-2196 TOPIC TAGS: ABSTRACT: It was shown earlier (1958-1962) that the "high-temperature condensation method" is not only a general preparative method for organosilicon compounds wout also a new route for the formation of the C-Si bond. The method involved the reaction of hydrocarbons or of chloro derivatives of unsaturated or aromatic hydrocarbons with silicon hydrides on passing of the stoichiometric mixture through a quartz tube heated to 500-650C: Card 1/2

ACCESSION NR: AF4019022

Orig. art. has: no figures, 4 formulas, no tables.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinski Akademii nauk SSSR [Institute of Organic Chemistry, Academy of Sciences, SSSR)

SURMITTED: 23Dec63

DATE ACQ: 27Mar64

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NO REF SOV: 002

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APPROVED FOR RELEASE: 06/23/11; CIA-RDP86-00513R001031700048-6

ACCESSION NR: AP4019022

\$/0062/64/000/002/0394/0395

AUTHOR: Mironov, V. F.; Maksimova, N. G.

TITLE: A new method of synthesizing vinyl substituted silanes

SOURCE: AN SSSR. Izv. Scriya khimicheskaya, no. 2, 1964, 394-395

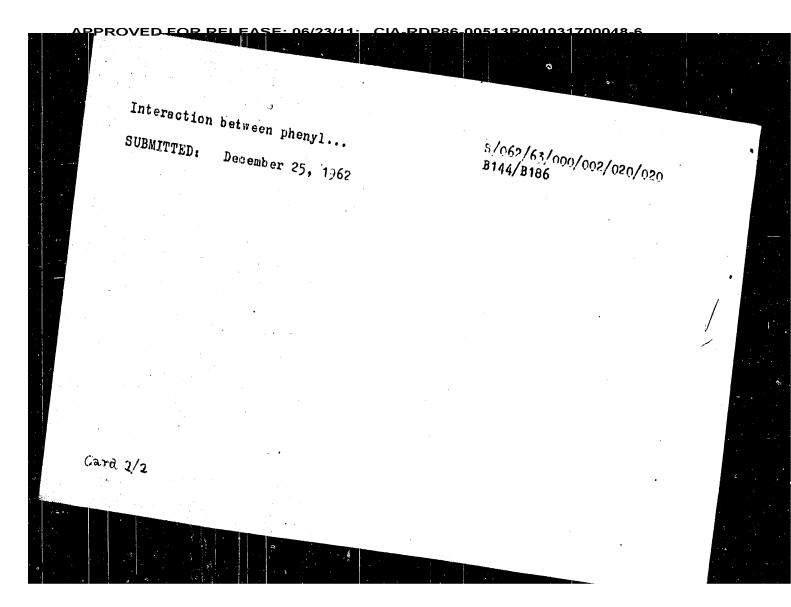
TOPIC TAGS: vinyl substituted silane, trichlorosilane, acetaldehyde, silane, synthesis

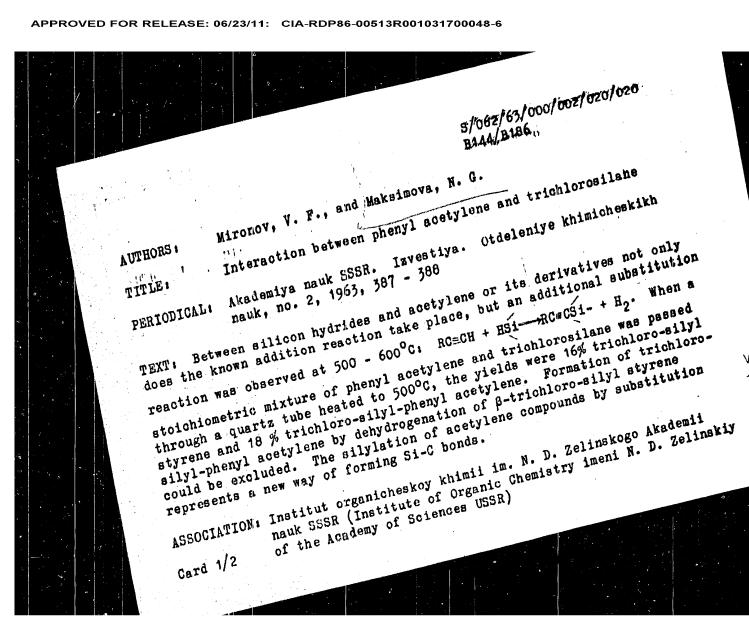
ABSTRACT: In the search for a new method which is different from that of Nesmeyanov et al. (Dokl. AN SSSR, 128, 551, 1959) for producing vinyl substituted silanes, the authors found that passing a mixture of trichlorosilane with acetaldehyde (1:2) at a rate of 20 g/hr through an empty quartz tube (length 1000 mm, diam, 20 mm) heated to 650C, vinyloxytrichlorosilane is formed with a yield of 46%.

 $\text{CH}_3\text{CHO} \neq \text{HSiCl}_3 \longrightarrow \text{Cl}_3\text{SiOCH}_2\text{CH}_2 \neq \text{H}_2$ .

Other silicon hydrides also enter in similar reactions with acetaldehyde.

Card 1/2





APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700048-6

Reaction of trichlorosilane...

S/062/62/000/007/009/013 B117/B180

hydrocarbon mixtures such as petroleum ether, gasoline, etc. can also be used for high-temperature condensation. The resulting products always contain up to 30% CH<sub>3</sub>SiCl<sub>3</sub> and CH<sub>2</sub>=CHSiCl<sub>3</sub> whatever the hydrocarbon used. The experiments show that the new reaction of HSiCl<sub>3</sub> with hydrocarbons of the paraffin and cycloparaffin series is a simple method of producing organosilicon compounds. There is 1 table.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences USSR)

SUBMITTED: January 3, 1962

Card 2/2

\$/062/62/000/007/009/013 B117/B180

AUTHORS:

Mironov, V. F., and Maksimova, N. G.

TITLE:

Reaction of trichlorosilane with hydrocarbon at high

temperatures

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 7, 1962, 1303 - 1305

The reaction of trichlorosilane with hydrocarbons in a continuousflow system (high-temperature condensation) was studied at  $\sim 600^{\circ}$ C. With isobutylene condensation occurred and with divinyl only addition. With cyclohexene and cyclohexane dehydrogenation and deep pyrolysis of the corresponding hydrocarbon yielded a mixture of organosilicon compounds. From the latter, methyl trichlorosilane (22 and 19%), vinyl trichlorosilane (10 and 20%), and phenyl trichloro-silane (16 and 15%) were separated, and, with cyclohexane, 6% allyl trichlorosilane. When hexane and nonane were used, the yields of organosilicon RSiCl3-type compounds were more than 60% the theoretical. The yields obtained with methane, propane, butane, and isooctane were somewhat lower. It was shown that Card 1/2

KUL'BA, F.Ya.; MIRONOV, V.Ye.; TRDITSKAYA, G.S.; MAKSIMOVA, N.G. Complexing of bivalent lead with sodium bromide. Zhur.neorg.khim. 6 no.8:1865-1867 Ag '61. (MIRA 14:8 (MIRA 14:8) 1. Leningradskiy tekhnologicheskiy Institut imeni Lensoveta kafedra obshchey khimii. (Lead compounds) (Sodium bromide)

Synthesis of Unsaturated Organosilicon Compounds on Propargyl Alcohol Bases

86482 S/062/60/000/011/013/016 B013/B078

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences USSR)

SUBMITTED:

April 26, 1960

Card 4/4

APPROVED FOR RELEASE: 06/23/11; CIA-RDP86-00513R001031700048-6

## 86482

Synthesis of Unsaturated Organosilicon Compounds on Propargyl Alcohol Bases

**S/062/60/**000/011/013/016 **B013/B**078

 $\gamma$ -(diethyl methyl silyl)propyl alcohol, the Raman spectra coincide with the exception of the weakest lines. Propargyl oxytrimethyl silane (III)  $^{\rm C}_{6}{}^{\rm H}_{12}{}^{\rm SiO}$  - boiling point 110.8°C (757 mm) - yield 47%. In a similar manner were synthesized:  $^{\rm C}_{2}{}^{\rm H}_{5}({}^{\rm CH}_{3})_{2}{}^{\rm SiOCH}_{2}{}^{\rm C} \equiv {}^{\rm CH}$  - boiling point 134.8°C (745 mm); (CH<sub>3</sub>)<sub>2</sub>Si(OCH<sub>2</sub>C  $\equiv {}^{\rm CH}$ )<sub>2</sub> - boiling point 73°C (10 mm);  $^{\rm C}_{2}{}^{\rm H}_{5}{}^{\rm Si}({}^{\rm OCH}_{2}{}^{\rm C} \equiv {}^{\rm CH})_{3}$  - boiling point 118°C (10 mm).  $^{\rm C}_{2}{}^{\rm H}_{5}{}^{\rm Si}({}^{\rm OCH}_{2}{}^{\rm C} \equiv {}^{\rm CH})_{3}$  - boiling point 118°C (10 mm).  $^{\rm C}_{2}{}^{\rm H}_{5}{}^{\rm Si}({}^{\rm OCH}_{2}{}^{\rm C} \equiv {}^{\rm CH})_{3}$  - boiling point 118°C (10 mm).  $^{\rm C}_{2}{}^{\rm H}_{5}{}^{\rm Si}({}^{\rm OCH}_{2}{}^{\rm C} \equiv {}^{\rm CH})_{3}$  - boiling point 118°C (10 mm).  $^{\rm C}_{2}{}^{\rm H}_{5}{}^{\rm Si}({}^{\rm OCH}_{2}{}^{\rm C} \equiv {}^{\rm CH})_{3}$  - boiling point 118°C (10 mm).  $^{\rm C}_{2}{}^{\rm H}_{5}{}^{\rm Si}({}^{\rm OCH}_{2}{}^{\rm C} \equiv {}^{\rm CH})_{3}$  - boiling point 118°C (10 mm).  $^{\rm C}_{2}{}^{\rm H}_{5}{}^{\rm Si}({}^{\rm OCH}_{2}{}^{\rm C} \equiv {}^{\rm CH})_{3}$  - boiling point 118°C (10 mm).  $^{\rm C}_{2}{}^{\rm H}_{5}{}^{\rm Si}({}^{\rm OCH}_{2}{}^{\rm C} \equiv {}^{\rm CH})_{3}$  - boiling point 118°C (10 mm).  $^{\rm C}_{2}{}^{\rm H}_{5}{}^{\rm Si}({}^{\rm OCH}_{2}{}^{\rm C} \equiv {}^{\rm CH})_{3}$  - boiling point 118°C (10 mm).  $^{\rm C}_{2}{}^{\rm H}_{5}{}^{\rm Si}({}^{\rm OCH}_{2}{}^{\rm C} \equiv {}^{\rm CH})_{3}$  - boiling point 118°C (10 mm).  $^{\rm C}_{2}{}^{\rm H}_{5}{}^{\rm Si}({}^{\rm OCH}_{2}{}^{\rm C} \equiv {}^{\rm CH}_{3}{}^{\rm Si}({}^{\rm C} \equiv {}^{\rm CH}_{3}{}^{\rm Si}({}^{\rm C} \equiv {}^{\rm CH}_{3}{}^{\rm C} \equiv {}^{\rm C}({}^{\rm CH}_{3}{}^{\rm C} \equiv {}^{\rm C}({}^{\rm CH}_{3}{}^{\rm C} \equiv {}^{\rm C}({}^{\rm C}({}^{\rm C} \equiv {}^{\rm C}({}^{\rm C} \equiv {}^{\rm C}({}^{\rm C} \equiv {}^{\rm C}({}^{\rm C}({}^{\rm C}({}^{\rm C}({}^{\rm C} \equiv {}^{\rm C$ 

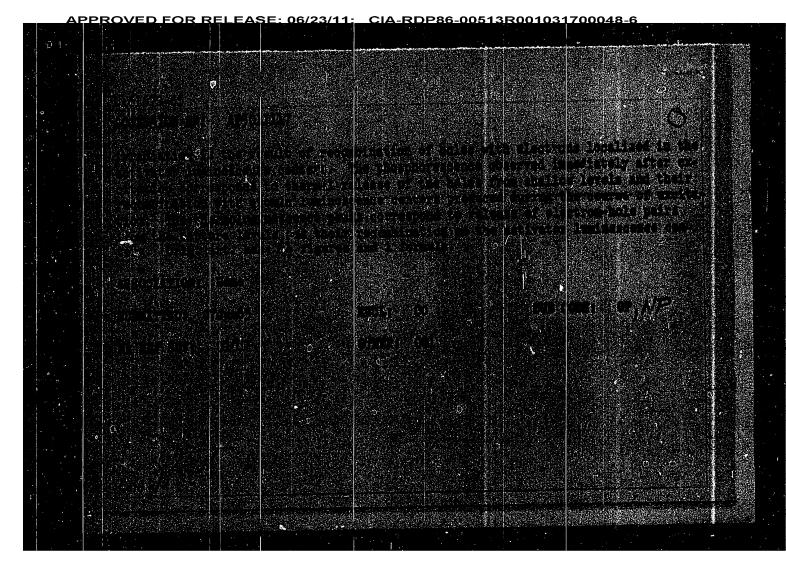
Card 3/4

s/062/60/000/011/013/016 Synthesis of Unsaturated Organosilicon Compounds on Propargyl Alcohol Bases B013/B078 Special reference is made to the order of addition of R3SiH to propargyl alcohol, which does not agree with the order of addition of these silicohydrides on  $(CH_3)_2C(OH)C \equiv CH$  (Refs. 2 and 3). 2-C-C-OH. Proceeding from propargyl alcohol, the following products were obtained: y-(trimethyl silyl)propargyl alcohol (I) -- C6H12St0 -- boiling point 65°C (10 mm) - yield 43.5%.  $\gamma$ -(diethyl methyl silyl)allyl alcohol (II) -  $c_8H_{18}SiO$  - boiling point 990-100°C (10 mm) - yield 67.5%. The products of the addition of acrylonitrile to alcohol (II) yielded C11H21SiNO - boling point 155°C (20 mm) - yield 60%. γ-(diethyl methyl silyl)propyl alcohol (IV) -C<sub>8</sub>H<sub>2O</sub>SiO - boiling point 86°C (9 mm). Although the refractive index and boiling point of this alcohol somewhat diverge from the established Card 2/4

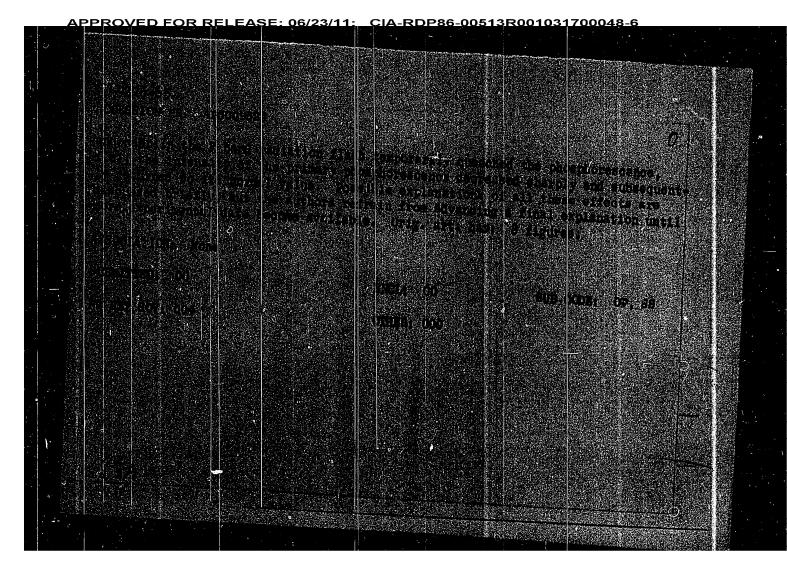
5	\$\\\062\\\60\\000\\011\\013\\016\\\\\\\\\\\\\\\
	AUTHORS: Mironov, V. F., Waksimova, N. G.
710	TITLE: Synthesis of Unsaturated Organosilicon Compounds on Propargyl Alcohol Bases
15	PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1960, No. 11, app. 2059 - 2061
	TEXT: This is a brief report on the investigation of the conversions of propargy alcohol according to the scheme attached:
20	$RnSi (OCH_{2}C \equiv CH)_{4-n} (C_{2}H_{6})_{2}CH_{3}SiCH = CHCH_{2}OCH_{2}CH_{2}CN$ $(111) \uparrow_{RnSiCl_{4-n}} \uparrow_{CH_{3}-CHCN} \rightarrow (C_{2}H_{6})_{2}CH_{3}SiCH = CHCH_{2}OH$ $CH \equiv CCH_{2}OCH_{2}CH_{2}CN \xrightarrow{CH_{3}-CHCN} CH \equiv C-CH_{2}OH \xrightarrow{HSiCH_{6}(C_{3}H_{6})_{2}} (C_{2}H_{6})_{2}CH_{3}SiCH = CHCH_{2}OH$ $(11)$
	$ H_{a}  = \frac{1}{ H_{a} } $ $ H_{b}  = \frac{1}{ H_{b} } $
25	Cl <sub>3</sub> SiCH=CHCH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub> CN (V)\ (CH <sub>3</sub> ) <sub>3</sub> SiC $\equiv$ CCH <sub>2</sub> OH (I) (C <sub>4</sub> H <sub>5</sub> ) <sub>2</sub> CH <sub>3</sub> SiCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> OH (IV) $\downarrow_{\text{CH}_{2}\text{Mg}_{2}\text{CI}} \qquad \uparrow_{\text{C}_{2}\text{H}_{4}\text{Mg}_{3}\text{CI}} \qquad (CH_{3})_{3}\text{SiCH}_{2}\text{CH}_{2}\text{CH}_{2}\text{COH}_{3}$ (CH <sub>2</sub> ) <sub>3</sub> SiCH=CHCH <sub>2</sub> OCH <sub>3</sub> CH <sub>3</sub> CN (VI) Cl <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CO <sub>2</sub> CCH <sub>3</sub>

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EWP(q)/SAT(m)/EWP(b)/BDS

2941/63/001/000/0198/0202

AUTHORS: Shamovskiy, L. M.; Maksimova, N. D.

TITLE: Nature of flash brightness in NaCl-Ni under light stimulation from F-band

1: Lyuminestsentsiya-SOURCE: Optika i spektroskopiya; sbornik statey. v.

Moscow, Izd-vo AN SSSR, 1963, 198-202

TOPIC TAGS: phosphor, irradiation, M-center, recombination, optical flash

ABSTRACT: A study was made of the behavior of x-rayed NaCl-Ni phosphors under continuous and pulsed optical irradiation from the F-band. On the basis of data obtained a new interpretation is proposed of the Parfianovich effect (L. A. Parfianovich. Opt. 1 spektr. 2, 392, 1957). The experiment performed differed from that of Parfianovich in one respect only: the use of optical rather than thermal irradiation. It was found that under continuous F-center irradiation luminescence brightness diminishes irregularly with nickel concentration. Optical destruction of M-centers further diminishes the subsequent optical flashing, and heating the phosphor to 90-1000 after destruction of M-centers results in a sharp increase in optical flash brightness. The enhancement of flashing bright-

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PMT(1)/EWP(q)/EWT(m)/EDS APPTO/ASD/SSD Pad JD/HW mit5:35<u>2</u>3 S/0058/63/000/007/D082/D082 ACCESSION RR. AR3005309 SOURCE: FZh. Flzika, Abs. 70595 Maksimova, N.D. AUTHOR: Shawovskiy, L.M. TITLE: Investigation of the properties of the phosphor NaCl-Ni N CIPED SOURCE: Sb. Fiz. shchelochnogaloidn. kristallov. Riga, 1962, 194-204, Biskus, 204-205 TOPIC TAGS: phosphor , NaCl-Ni, absorption, luminescence TRANSLATION: It is found that in NaCl-Ni the absorption in the region 246 mwand luminescence is due only to that part of the activating importty which is localized in the structural lattice defedts. The local distribution of the glow centers in the structural defects of the lattice is the cause of the growth in the initial brightness of the optical flash in x-ray exposed NaCl-Ni after darkSAPANKEVICH, P.V.; MAKSIMOVA, N.A.; KHOMENKO, B.P. Effect of aqueous extracts from the rhyzomes of Bermuda grass on the germination of some crop plant seeds and the growth of their rootlets. Agrobiologiia no.6:915-916 N-D 165. (MIRA 18:32) 1. Uchebnoye khozyaystvo "Kommunar" Krymskogo seliskokhozyaystveno nogo instituta imeni M.I.Kalinina.

KARTASHOV, A.K.; GOLOVNYAK, Yu.D.; ZHIZHINA, R.G.; MAKSIMOVA, N.A.

Using polyacrylamide in the sugar industry. Sakh. prom. 35 no.11:
17-23 N '61.

1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti.

(Acrylamide) (Sugar manufacture)

KHONIG, P.[Honig, Pieter], red.; GOLOVNYAK, Yu.D., inzh.[translator];

MAKSIMOVA, N.A., inzh. [translator]; ZHIZHINA, R.G., inzh.

[translator]; Prinimali uchastiye: TROYNO, V.P. [translator];

GOROKH, V.N.[translator]; BENIN, G.S., kand. tekhn. nauk, red.; VOYKOVA, A.A., red.; KISINA, Ye.I., tekhn. red. [Principles of sugar technology]Printsipy tekhnologii sakhara. Pod red, G.S.Benina. Moskva, Pishchepromizdat, 1961. 615 p. (MIRA 15:12) Translated from the English. (Sugar manufacture)

KARTASHOV, A.K.; GOLOVNYAK, Yu.D.; ZHIZHINA, R.G.; MAKSIMOVA, N.A.

Effect of the reaction of water used for diffusion on the operration of the juice-purification plant. Sakh.prom. 34 no.1:
9-11 Ja '60. (MIRA 13:5)

1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti. (Sugar manufacture)

CIA-RDP86-00513R001031700048-6

APPROVED FOR RELEASE: 06/23/11; CIA-RDP86-00513R001031700048-6

KARTASHOV, A.K.; IVANOVA, L.K.; MAKSIMOVA, N.A.

Determining glutamic acid content of feed molasses. Trudy TSINS no.7:87-102 '60. (MIRA 16:2)

1. Laboratoriya ochistiki sokov i fil'tratsii TSentral'nogo nauchno-issledovatel'skogo instituta sakharnov promyshlennosti. (Molasses) (Glutamic acid)

CIA-RDP86-00513R001031700048-6 KARTASHOV, A.K.; GOLOVNYAK, Yu.D.; ZHIZHINA, R.G.; MAKSIMOVA, N.A. Testing the method of multistage defecation-saturation. Trudy TSINS no.7:50-60 160. (MIRA 16:2) 1. Laboratoriya ochistki sokov i fil'tratsii TSentral'nogo nauchno-issledovatel skogo instituta sakharnoy promyshlennosti. (Sugar manufacture)

KARTASHOV, A.K.; ZHIZHINA, R.G.; MAKSIMOVA, N.A.

Optimum reaction of the second carbonation juice. Trudy TSINS
no.7:25-49 '60.

1. Laboratoriya ochistki sokov 1 fil'tratsii TSentral'nogo
nauchno-issledovatel'skogo instituta sakharnoy promyshlennosti.

(Sugar manufacture)

KARTASHOV, A.K.; GOLOVNYAK, Yu.D.; MAKSIMOVA, N.A. Investigating the returning of an overcarbonated first saturation juice for defecation under factory conditions. Trudy TSINS (MIRA 16:2) no.7:19-24 '60. 1. Laboratoriya ochistici sokov i fil'tratsii TSentral'nogo nauchno-issledovatel'skogo instituta sakharnoy promyshlennosti. (Sugar manufacture)

<u> APPROVED FOR RELEASE: 06/23/11;\_\_CIA-RDP86-00513R001031700048-6</u> KARTASHOV, A.K.; GOLOVNYAK, Yu.D.; ZHIZHINA, R.G.; MAKSIMOVA, N.A. Use of polyelectrolytes in the sugar industry. Sakh.prom. 33 no.10:24-29 0 '59. (MIRA 13:3 (MIRA 13:3) 1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti. (Sugar manufacture) (Electrolytes)

MAKSIMOUA, M.K.; GOLOVNYAK, Yu.D.; MAKSIMOVA, N.A.; ZHIZHINA, R.G.

Total alkalinity of first cerbonation juice. Sakh. prom. 32
no.2:15-19 F '58. (MIRA 11:3)

1. TSentral'nyy nauchno-iesledovatel'skiy institut sakharnoy promyahlennosti.
(Sugar manufacture)

MAKSIMOVA. KARTASHOV, A.K.; MAKSIMOVA, N.A.; ZHIZHINA, R.G. More precise complexometric determination of calcium in augar (HIRA 10:12) products. Sakh.prom.31 no.9:54-58 S '57. 1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy (Sugar--Analysis and testing) (Calcium--Analysis) (Volumetric analysis) svekly.

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MAKSIMOVANA

KARTASHOV, A.K.; GOLOVNYAK, Yu.D.; ZHIZHINA, R.G.; MAKSIMOVA, N.A.

Effect of centrifugal pumps on the filtration properties of the juice of first carbonation and the concentrated suspension from sefting tanks. Sakh.prom. 30 no.9:9-14 S 156. (MLRA 10:3)

1. TSentral'nyy nauchno-issledovatel'skiy insitut sakharnoy promyshlennosti.

(Centrifugal pumps) (Sugar industry)

<u> APPRQVED FOR RELEASE: 06/23/11;\_\_CIA-RDP86-00513R001031700048-6</u> MARTASHEV, A.K., kandidat tekhnicheskikh nauk; GOLOVNYAK, Yu.D., inzhener; ZHIZHINA, R.G., inzhener; MAKSIMOVA, N.A., inzhener. Commencer of the Commen Physicochemical properties of the sediments of the juice of first carbonation in connection with various methods of p eliminary defecation. Trudy TSINS no.4:68-91 '56. (MIT 10:5) (Sugar industry)

MIKHEYEV, N.I.; BULYGIN, I.P.; MAKSIMOVA, N.A.; FEDOTOV, V.P. Apparatus for mechanical testing at temperatures up to 2000°C; Zav.lab. 29 no.3:371-375 '63. (MIRA I (Metals at high temperatures) (Testing machines) (MIRA 16:2) PROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700048-6

## MAKSIMOYA, N.A.

USSR / Virology. Human and Animal Viruses. Viruses of the Pox E-3 Group.

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 90662

Authors : Marennikova, S. S.; Uspenskiy, F. N.; Maksimova, N. A. inst : Moscow Scientific Research Institute for Vaccines and

Title : An Experiment in the Mass Application of a New Smallpox Vaccine (Egg Vaccine) in the City of Yaroslav.

Orig Pub : Tr. Mosk. n.-i. in-ta vaktsin i syvorotok, 1957, 9, 141-143.

Abstract : No abstract.

Card 1/1

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S/659/62/008/000/005/028 I048/I248

Polymorphous transformations ...

representing solid solutions based on the \$\varepsilon\$, and \$\varphi\$ modifications of Cr were found to exist, together with the \$\varepsilon\$ and \$\varphi\$ two-phase regions; the \$\varepsilon\$ +\$\varepsilon\$ region is associated with the \$\varepsilon\$ transformation at 18300C, while the \$\varphi\$ +\$\varepsilon\$ is associated with the region beneath the solidus curve, while the \$\varphi\$ phase occupies the Cr-rich corner at temperatures below 16000. An x-ray analysis of the 90% Cr alloy quenched from 15000C showed that the \$\varepsilon\$ -modificatand 1 table.

Card 2/2

S/659/62/008/000/005/028 I048/I248

Grigor yev, A.T., Sokolovskaya, Ye.M., Sokolova, I.G.,

and Maksimova, M.V.

Polymorphous transformations in chromium, and structure TITLE:

of the chromium-based solid solution in the system

chromium-iron-molybdenum

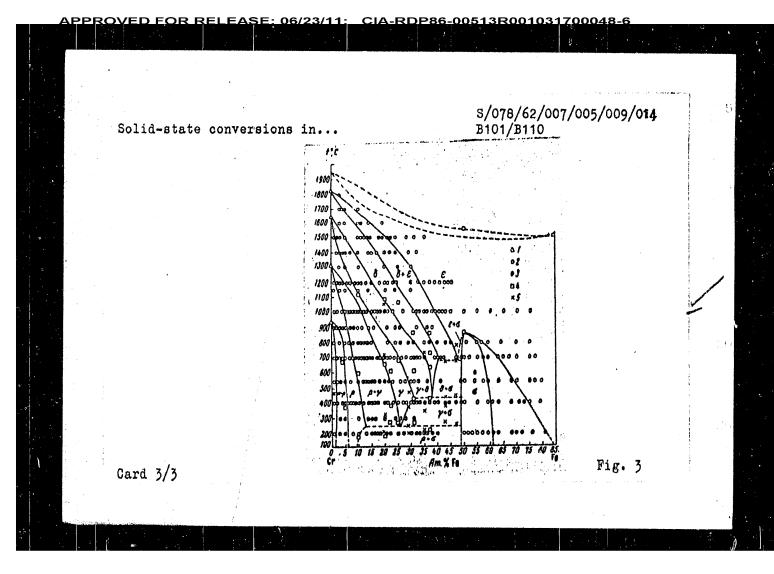
Akademiya nauk SSSR. Institut metallurgii, Issledovaniya SOURCE:

po zhatoprochnym splavam, v.8. 1962. 42-46

An isoplet through the Cr-Mo-Fe system radiating from the Cr corner and representing a fixed 3:1 (st:wt) Fe:Mo ratio was constructed on the basis of microstructural and x-ray analysis data for 33 different alloys. The total Fe+Mo content of the alloys studied did not exceed 45%; the alloy specimens were prepared in a W-arc furnace in argon atmosphere using Ti as the getter, and tempered at 1400-1700°C before the tests. The solidus temperatures were 1750, 1715, 1640, 1620, and 1620°C for the alloys containing 96, 86, 76, 62, and 58% Cr respectively. Three homogenous regions

Card 1/2

AUTHORS:



Solid-state conversions in...

S/078/62/007/005/009/014

SUBMITTED: June 23, 1961

Fig. 3. Phase diagram of the system chromium-iron on the basis of the authors' results. (1) Polymorphous conversions; (2) thermal analysis;

Legend: Am. % Fe = at% Fe.