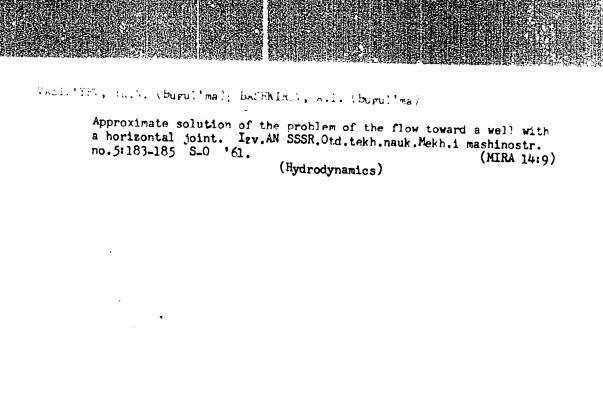
VASIL'YLV, Yu.N.; MARSUTOV, R.A.; BASHKIRCV A.I.

Experimental study of the structure of oil and gas flow in a flowing well. Neft, khoz. 39 no.4:41-44 Ap '61.

(MIRA 14:6)

(Oil reservoir engineering)



Propagation of elastic vibrations in oil wells. Trudy VNII no.35:3-10 '61. (Oil wells-Vibration)

AUZBAYEV, D.; BASHKIROV, A.I.; VASILIYEV, Yu.N.; MAKSUTOV, M.A.

Methods and results of the experimental study of the gas-oil

mixture flow in a flowing well. Neft. khoz. 39 no.12:38-40
D '61. (MIRA 14:12)

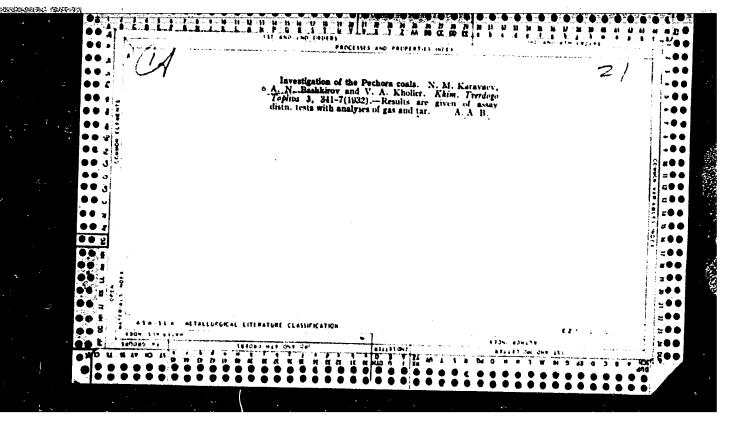
(Oil reservoir engineering)

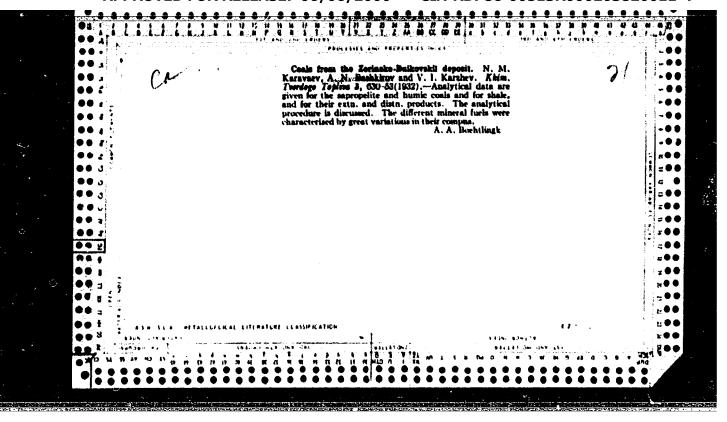
ARKHANGEL'SKIY, V.A. (Moskva); AUZBAYEV, D. (Bugul'ma); BASHKIROV, A.I. (Bugul'ma); VAILI'YEV, Yu.N. (Bugul'ma); MAKSUTOV, R.A. (Bugul'ma)

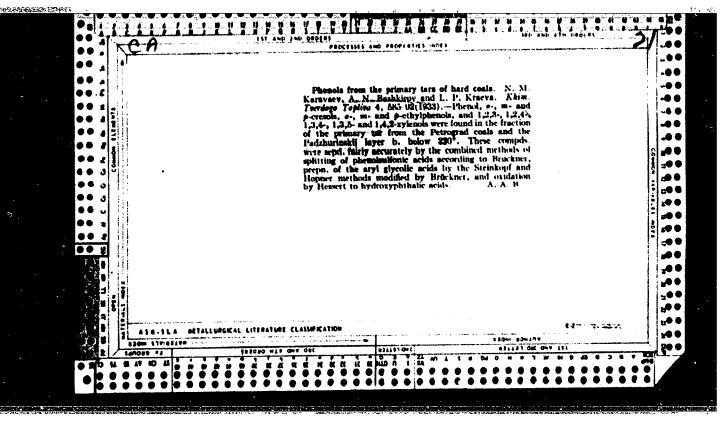
Investigating gas-oil mixture flow in gushers. Inzh.zhur. 2 no.1:55-68 '62. (MIRA 15:3)

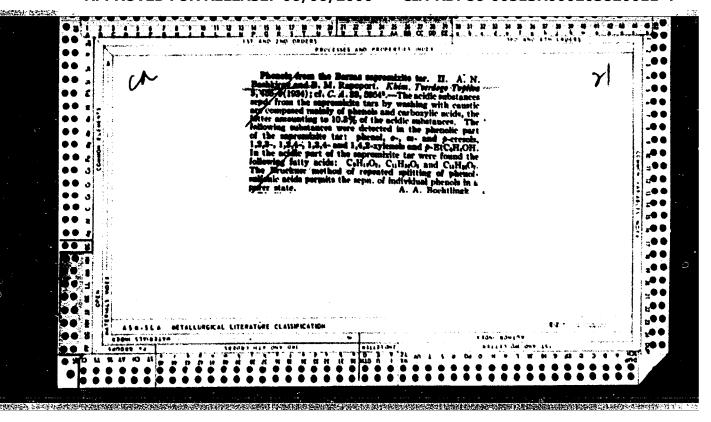
1. Institut mekhaniki AN SSSR i Tatarskiy nauchno-issledovatel'skiy institut.

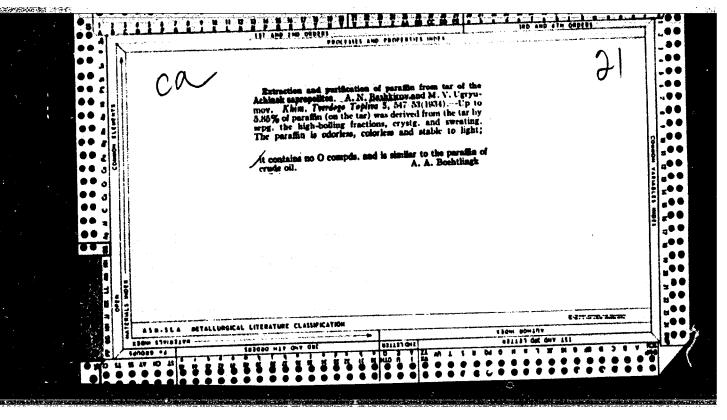
(Oil reservoir engineering)

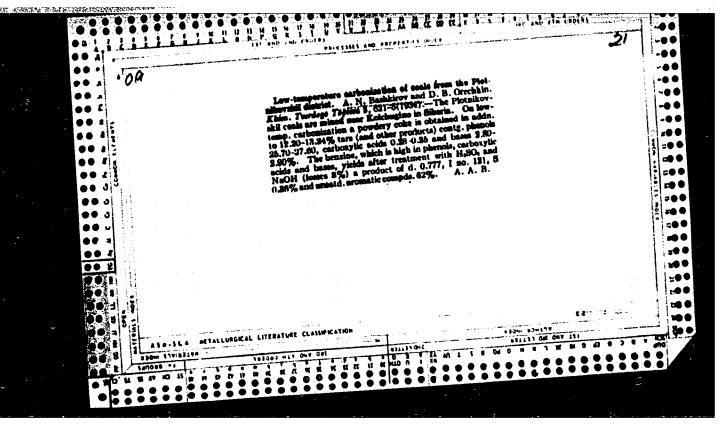


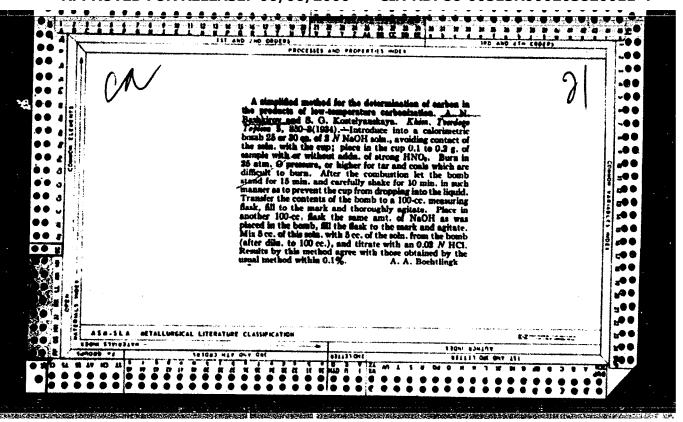


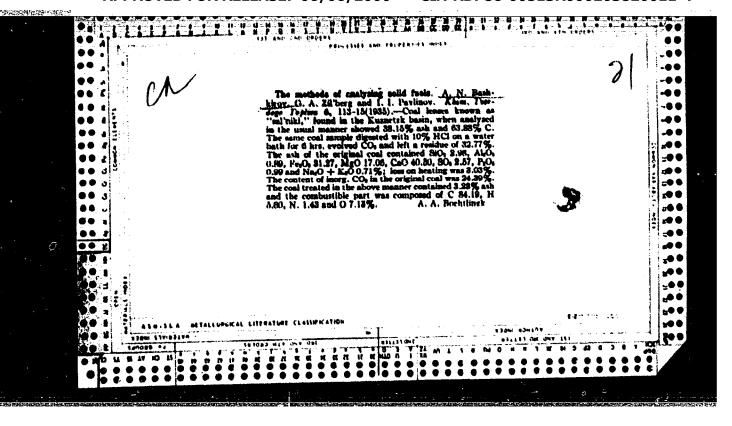


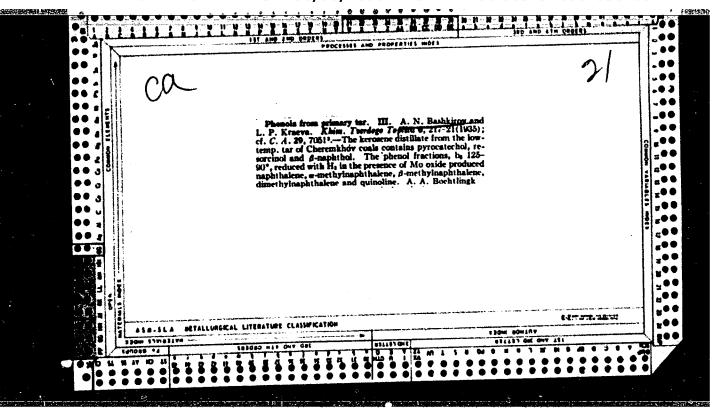


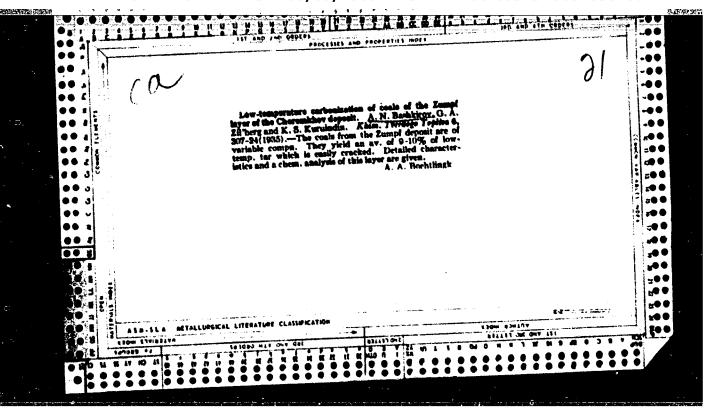


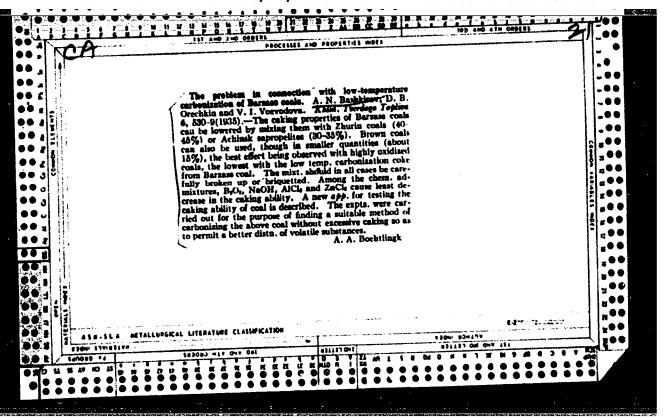


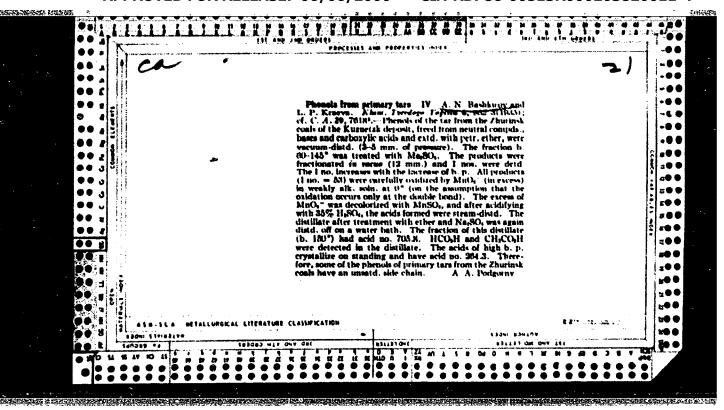


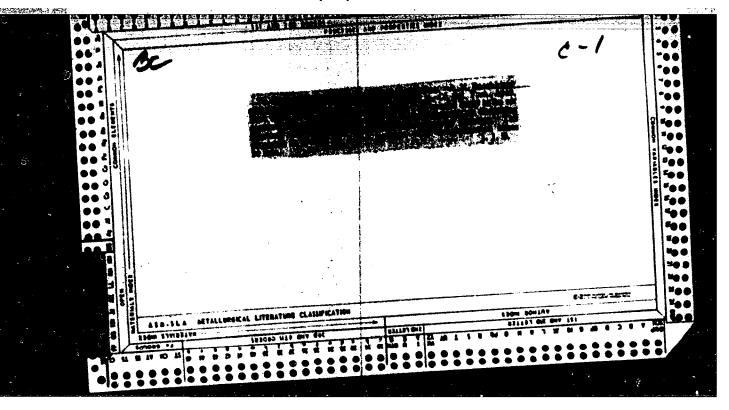


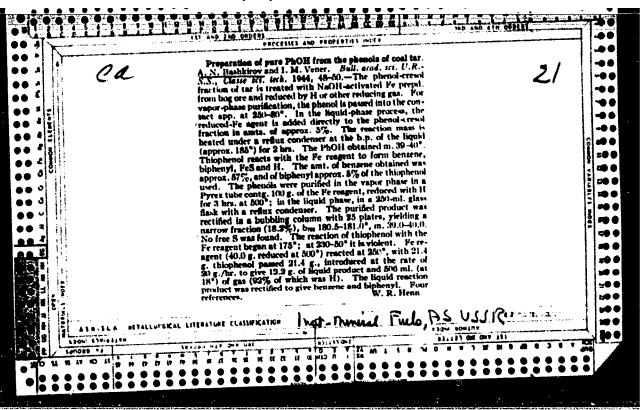


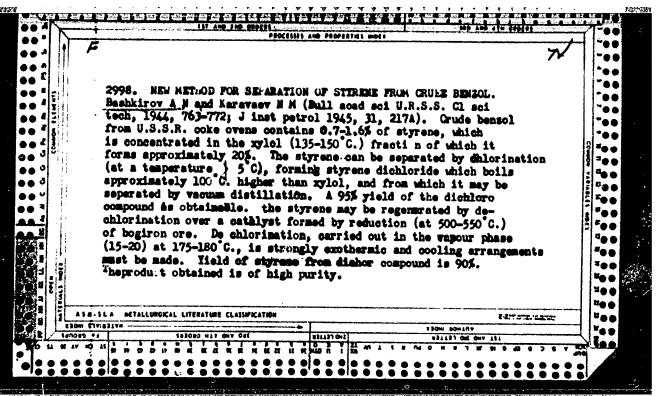


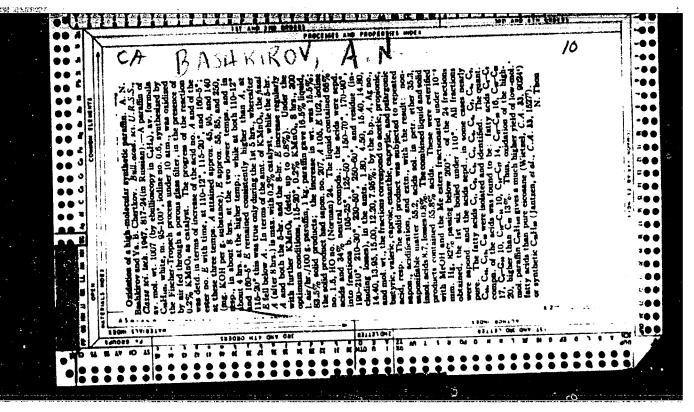


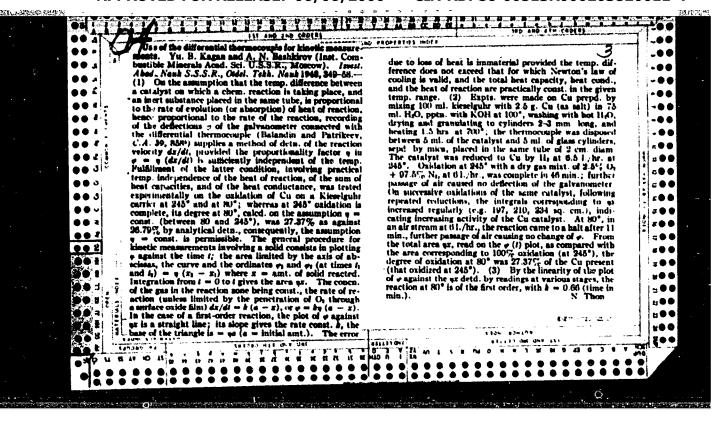












BASHKIROV, A. H.

Bashkirov, A. N., Stepanova, V. B., and Sukhotinskaya, T. M. - " A selective method of processing primary tars", (Report 1), Trudy Mosk, in-ta tonkoy khim. tekhnologii im. Lomonosova, Issue 2, 1949, p. 43-58, - Bibliog: 6 items.

SO: U-3^42, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

BASHKIROV, A. N.

Bashkirov, A. N. and Vinkurova, T. D. - "Cracking of kogazin in the presence of aluminum chloride", Trudy Mosk. in-ta tonkoy khim, tekhnologii im. Lomonosova, Issue 2, 1949, p. 66-69.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. S, 1949).

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CIA-RDP86-00513R000203820011-4

BASHKIROV, A.-N.

USSR Engineering - Gas Analyzers Gas Analysis

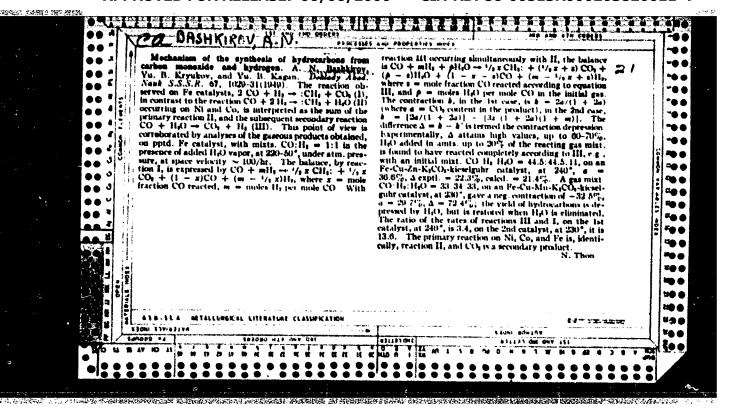
Nov 49

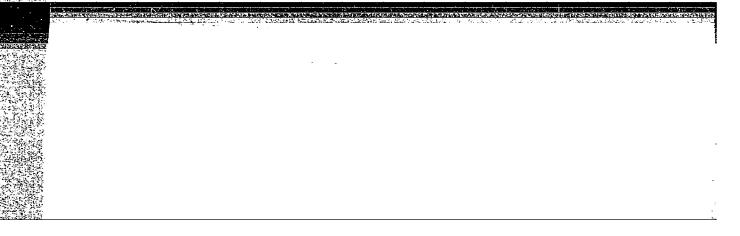
"Gas Analyzer for Two-, Three-, and Four-Component Mixtures," Yu. B. Kryukov, V. V. Kamzolkin, A. N. Bashkirov, Petroleum Inst, Acad Sci USSR, 11 pp

"Iz Ak Nauk SSSR, Otdel-Tekh Nauk" No 11

Proposes new-type gas analyzer for analysis of two-, three-, and four-component mixtures of CO₂, CO, H₂, and N₂ (or CH₂). Provides for automatic analysis at various rates of gas flow. Apparatus uses rheometers, and calcium chloride and ascarite tubes. Submitted by Acad S. S. Nametkin.

PA 159T13





Chemical Abst.

Vol. 48 No. 4

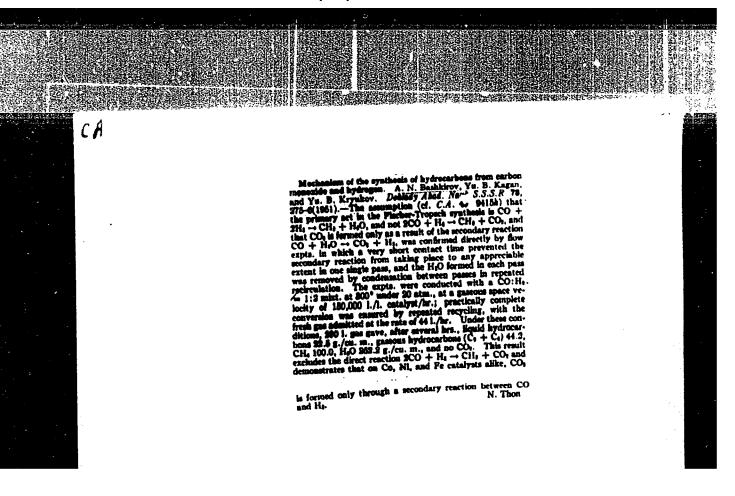
Feb. 25, 1954

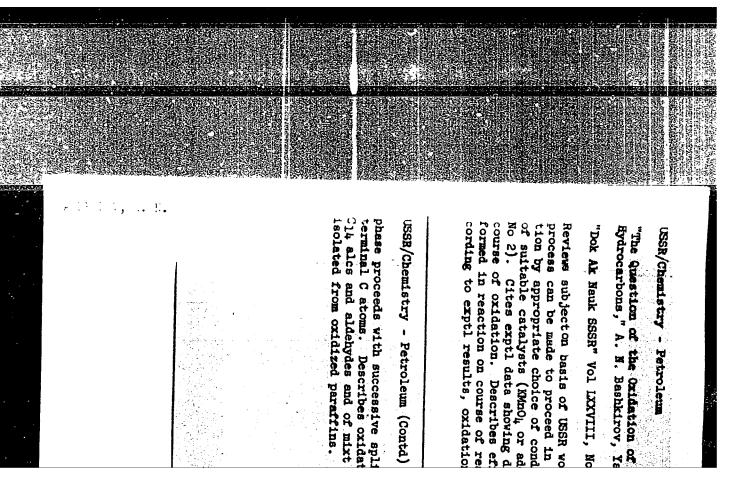
Fuels and Carbonization Products

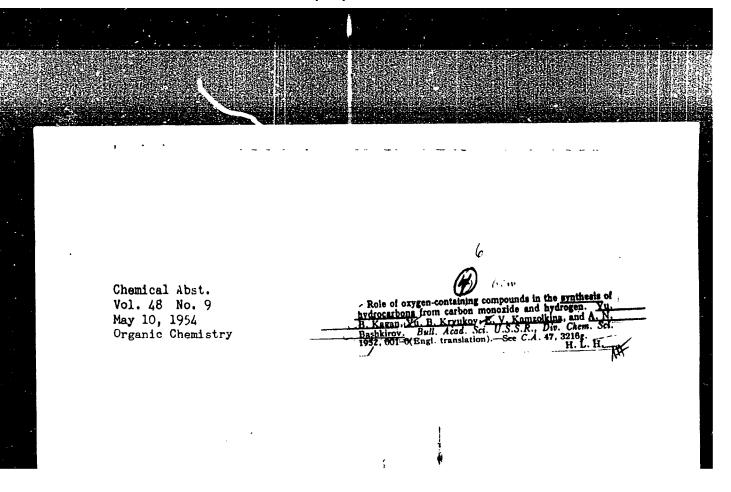
and Early and Early in the chlorinated with 15% NaOH and with 3%, 1850, to remove phenois and excess shall. The product is dired and then chlorinated with 15% NaOH and with 3%, 1850, to remove phenois and excess shall. The product is dired and then chlorinated with 15% NaOH and with 15% NaOH and with 15% NaOH and with 15% NaOH and with 15% to remove phenois and excess shall. The product is dired and then chlorinated and the fraction configuration of the converted to II.

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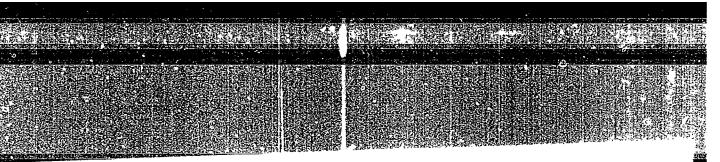






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BASHKIROV, A. N.

USSR/Chemistry - Synthetic Liquid Fuels Jul/Aug 52

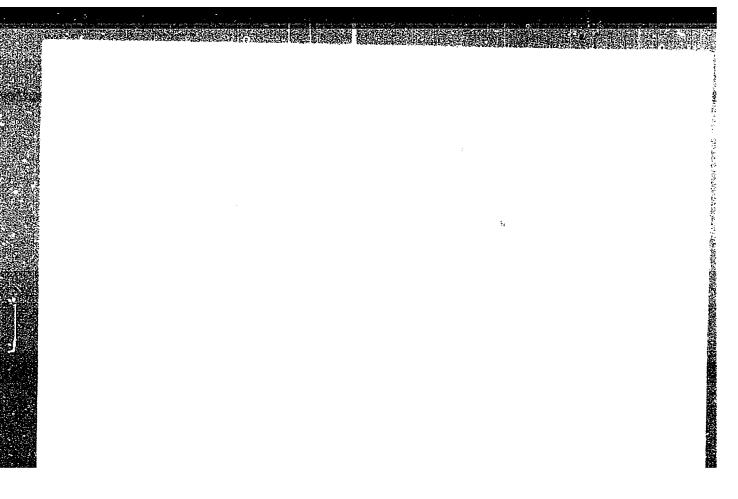
"The Role of Oxygen-Containing Compounds in the Synthesis of Hydrocarbons From Carbon Monoxide and Hydrogen," Yu. B. Kagan, Yu. B. Kryukov, Ye. V. Kamzolkina, A. N. Bashkirov, Petroleum Inst, Acad Sci USSR "Iz Ak Nauk SSSR, Otdel Khim Nauk" No 4, pp 649-657

Article states that results of the expts described show that alcs cannot be regarded as intermediate products in the synthesis of hydrocarbons, and that iron catalysts, under the conditions of hydrocarbon synthesis, accelerate the oxidation of alcs and aldehydes. Advances hypotheses explaining the formation of oxygen-contg compds (by-products of hydrocarbons).

PA 229T16

STORCH, H.; KAGAN, Yu.B.[translator]; KRYUKOV, Yu.B.[translator]; LOKTEV, S.M.[translator]; LUK'YANITS, V.G.[translator]; RASHKI-ROV, A.H., professor, redaktor.

[The Fischer-Tropsch and related syntheses (original title); translated from the English by IU.B.Kagan (and others)] Sintes uglevodorodov is okisi ugleroda i vodoroda. Perevod s angliiskogo IU.B.Kriukova, S.M.Lokteva i V.G.Luk'ianitsa. Pod red. A.B.Bashkirova, Noskva, Isd-vo inostrannoi lit-ry, 1954. 516 p. (MIRA 7:8) (Synthine process) (Catalysis)



The Reaction of Pyrochiric Iron MX With 1.2-Dillaforenated Mysrophrocus Tr. In-ta Nefti AN SBSR, Vol 4, 1954, 159-172

1,2-Dihalogenated hydrocarbons were passed through a heated tube containing pyrophoric iron. The reaction products were olefins when the polymerization and isometrization were inhibited. Using this method, olefins were prepared from 1,2-dibromo substituted n-parfins from C₂ to C₈, cyclopentane, cyclohexane, styrene, indene, and tetrabromocyclopentane. The yield ranged from 80 to 90%. (RZhKhim, No 3, 1955)

SO: Sum-No 845, 7 Mar 56

BASHKIROV, A.M.; KHOTIMSKAYA, M.I.

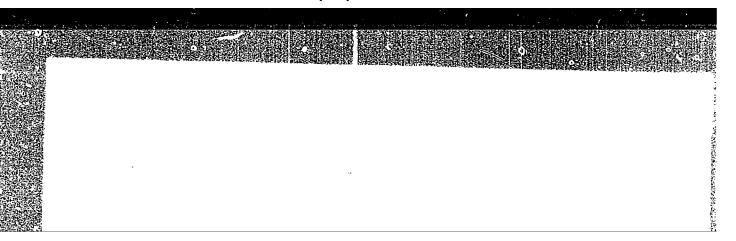
Condition of the dual relation in olefins obtained in synthesis from carbon monoxide and hydroxide. Trudy Inst.nefti 4:173-175 '54.

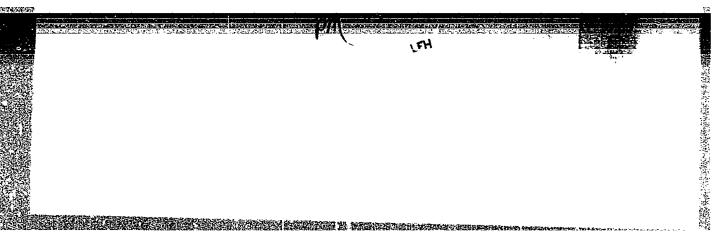
(Olefins) (Carbon monoxide) (Hydroxides)

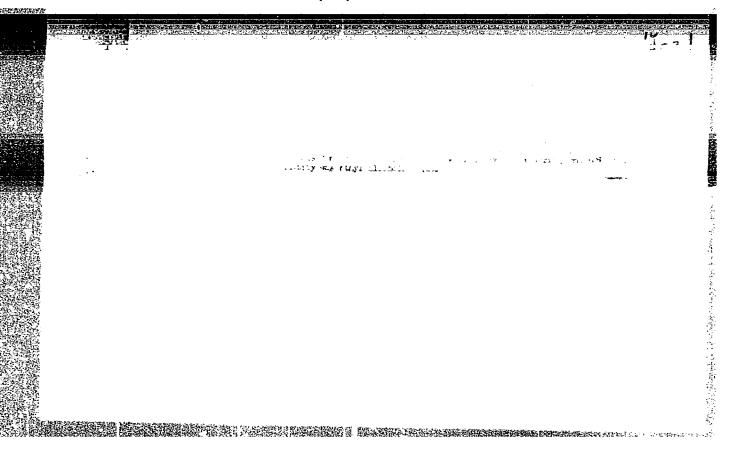
"A Study of Certain Oxidated Catalysts in the Synthesis of Hydrocarbons from Carbon Monoxide and Hydrogen" Iz. Ak. Nauk SSSR, Otdel Tekh, Nauk., No. 8, pp. 147-53, 1954.

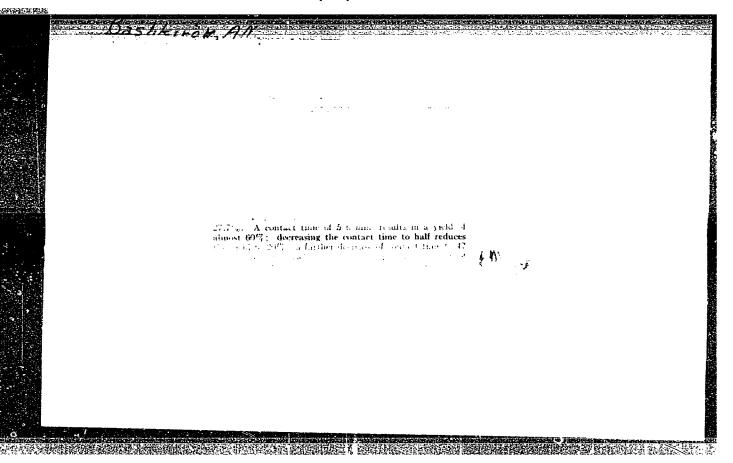
The composition and characteristic features of certain new catalysts for the synthesis of hydrocarbons from carbon monoxide and hydrogen are described and discussed. These new catalysts contain neither iron, cobalt, nickel, nor ruthenium as their basic component, but one of the poorly reductible metal oxides (ThO2, MgO2, Al2O3, etc.) and are called, therefore, oxidated catalysts.

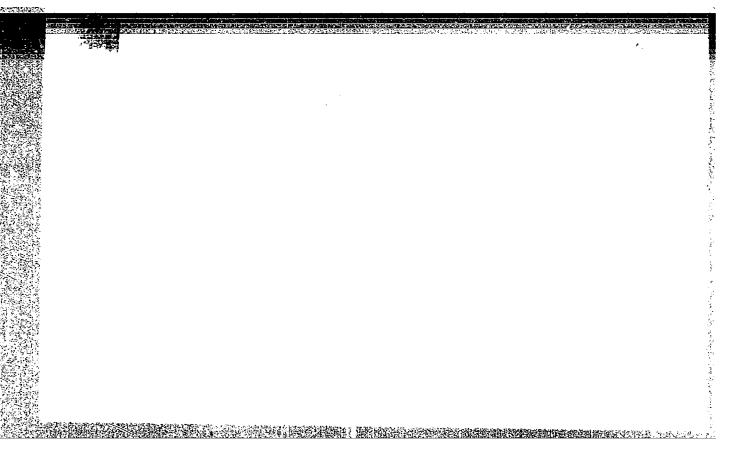
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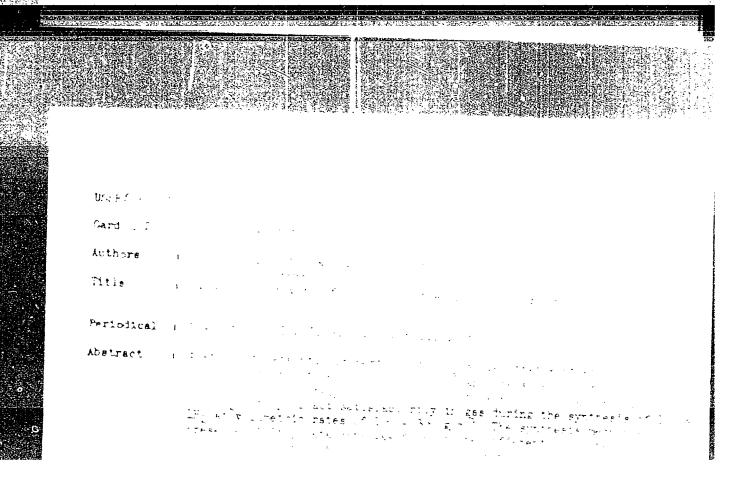


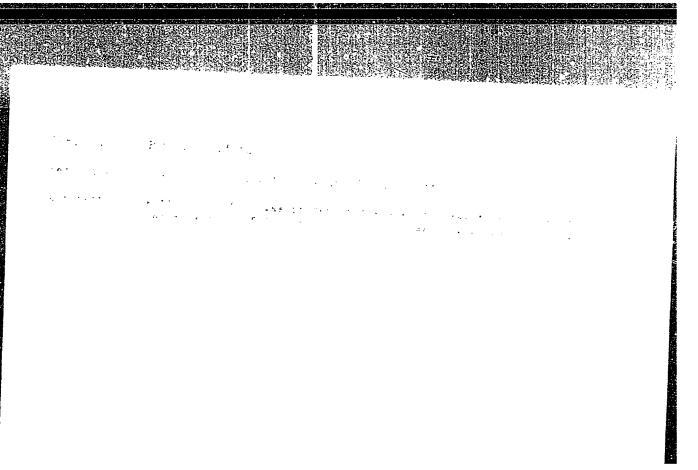


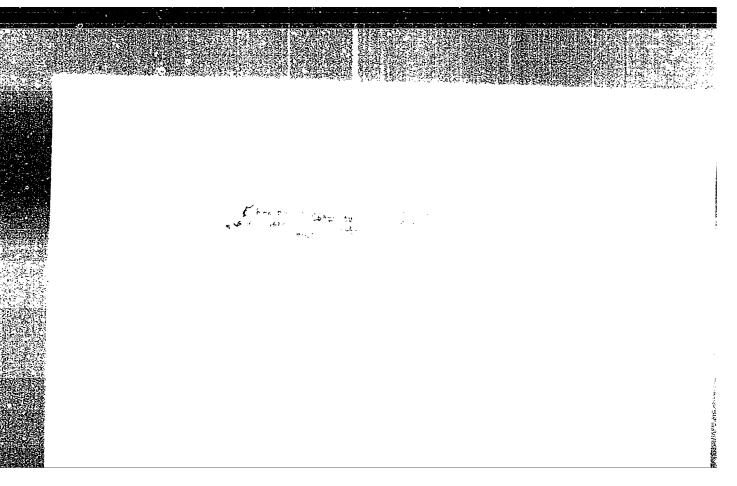


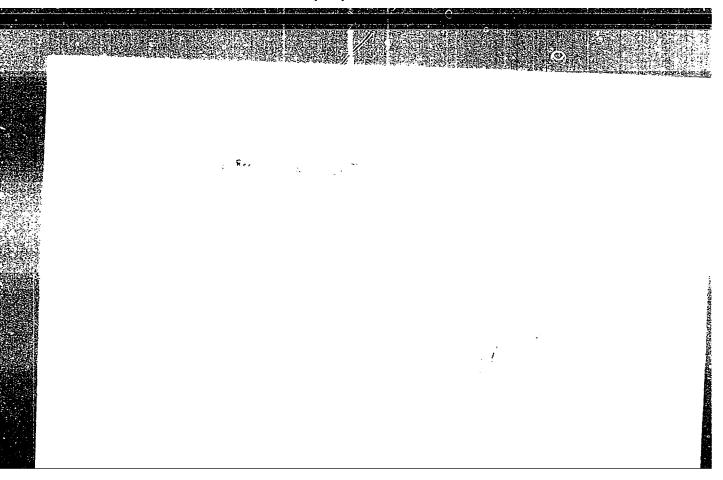


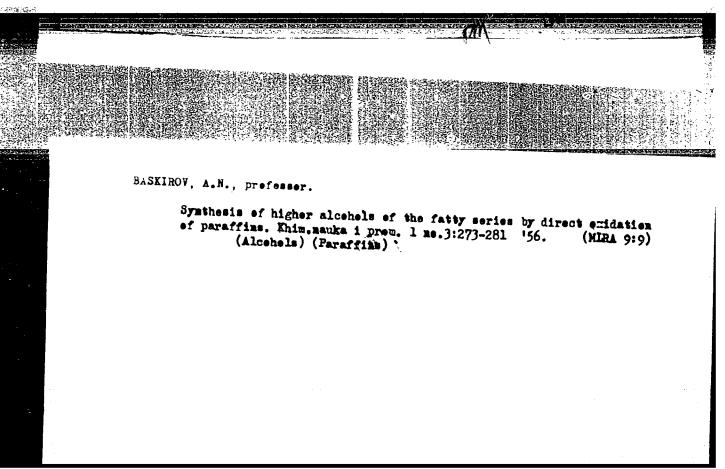


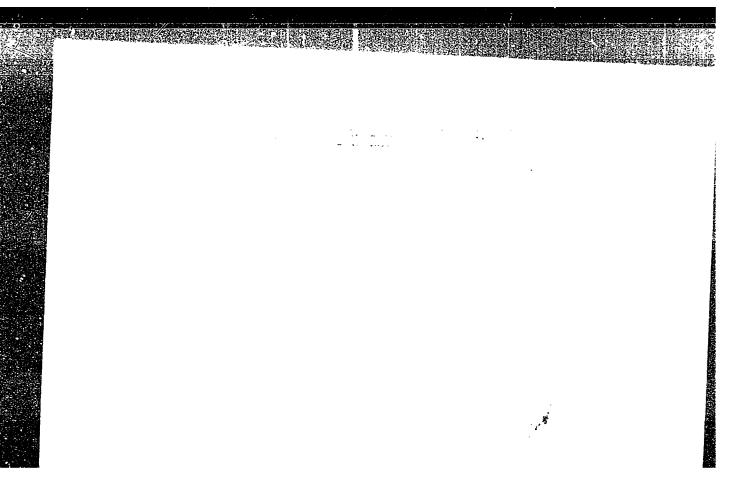




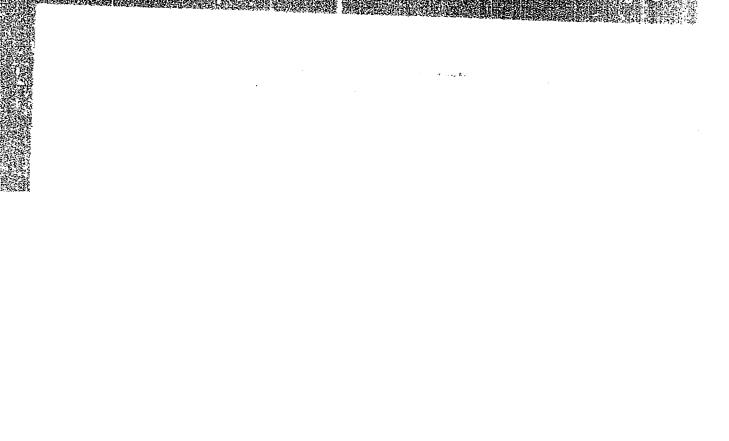








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USSR/Chemical Technology - Chemical Froducts and Their

I-13

Application. Treatment of natural gases and petroleum.

Motor fuels. Lubricants.

Abs Jour

: Referat Zhur - Khimiya, No 4, 1957, 12955

Author

Title

: Bashkirov A.N., Loktev S.M., Khotimskaya M.I. : Composition of Synthesis Froducts from CO and H₂ over

Kieselguar Catalysts

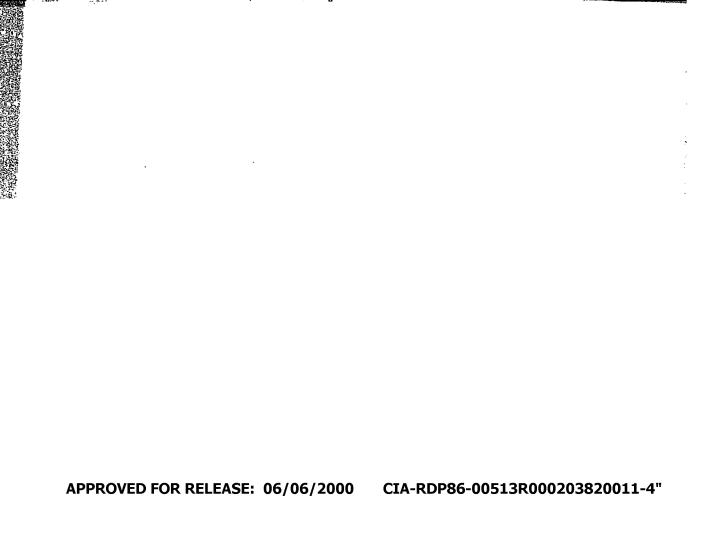
Orig Pub

: Khimiya, i tekhnologiya topliva, 1956, No 5, 18-22

Abstract

: Presented are the results of investigation of the compo-

tion of gaseous and liquid products of the synthesis from





USSR/Kinetics - Combustion. Explosions. Topochemistry. Catalysis. B-9

Abs Jour : Referat Zhur - Khimiya, No 6, 1957, 18633

opion that the special properties of catalysts reduced in CO are connected with the carbonization of the reduced iron and the formation of cementite Fe₃C.

Card 2/2

- 273 -

OASKRIROV, A.N.

USSR/Physical Chemistry - Kinetics. Combustion.

Explosives. Topochemistry. Catalysis.

B-9

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 3852

Author

Bashkirov. A.N. m. Khotimskaya M.I., Kryukov Yu B.
Institute of Petroleum, Academy of Sciences USSR

Inst Title

: Synthesis of Hydrocarbons from Carbon Monoxide and Hydrogen over "Sintered" Iron Catalysts

Orig Pub

: Tr. In-ta nefti AN SSCR, 1956, 8, 162-167

Abstract

Study of the effects of the conditions of reduction upon the mechanical strength and activity of precipitated activity at the process of synthesis of hydrocarbons. After treatment of the catalyst in a current of H₂ at 800-8500 and space velocity of 2000 hourshor for 2 hours, the reduced and sintered specimens are of sufficient mechanical durability; they are inactive at atmospheric pressure and are highly active at a pressure of 2000 atmospheres, temperature of 3000 and space velocities

Card 1/2

- 143 -

USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry. Catalysis

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11286

Author

: Bashkirov A.N., Loktev S.M., Sabirova G.V.

Inst

: Institute of Petroleum, Academy of Sciences USSR

Title

: Study of Catalytic Activity of Some Metal Oxides in the Synthesis

from Carbon Monoxide and Hydrogen

Orig Pub : Tr. In-ta nefti AN SSSR, 1956, 8, 168-175

Abstract : Study of catalytic activity of oxides of Pb, Sn, Cd, No, W, Cr, Si, Mn, Ti, V, Al, Mg, Sr, Th (with addition 0.5%5% 12003) ninithe reaction of synthesis of hydrocarbons from mixture CO: H = 1: 1 in circulation system at 300-5000, and 30 atm pressure (2502 atm in the case of ThO2 and Al₂O₃) at space velocities 100-150 hour-1. Oxides of Pb, Sn, and Cd, under the above-stated conditions are reduced to the metal and their activity is very slight. Catalyst based on oxides of Mo, W. Si, Mn, V, Mg show high activity but produce mostly gaseous hydrocarbons. Catalysts based on oxides of Ti and Sr were found to be inactive. Highest activity is exhibited by SiO₂ + 2% K₂CO₃, the yield of liquid reaction products

1/2

USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry.

B-9

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Orig Pub : Referat Zhur - Khimiya, No 4, 1957, 11286

with this catalyst being of 30-60 g/m³. Granulated K₂CO₃, and also K₂CO₃ deposited on activated charcoal, are inactive. It is noted that all catalysts of the synthesis based on CO and H₂ must possess the property of activating the CO molecule.

2/2

USSR Chemical Technology. Chemical Products and Their Application

I-17

CARL SECOND CONTROL OF THE SECOND SEC

Industrial organic synthesis

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32035

Author : Bashkirov A.N., Novak F.I.

WHOTHINDY, A.N.

Title : Study of Thermal and Chemical Activation of Talc Catalysts for Synthesis from Co and H2.

Orig Pub: Khimiya i tekhnol. topliva, 1956, No 10, 32-36

Abstract: The possibility is shown of utilizing in the

synthesis from CO and H2 of catalysts (C) with a talc base (natural magnesium hydrosilicate). In preparing active catalyst from talc a preliminary thermal activation of the latter, by calcination at about 600°, is necessary. It is shown that the formation of liquid products of the

Card 1/3

USSR Chemical Technology. Chemical Products and Their Application

I-17

Industrial organic synthesis

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32035

synthesis over talc C, the latter must be activated by compounds containing ions of alkali metals; of the 16 compounds that were studied the most active are carbonates and nitrates, and of the reagents those the anions of which contain atoms of metals (Cr, Mn, W etc) are less active. Substances containing the ions Br-1, Cl-1 and SOy-2 deactivate completely the C, but the F-ion was found to be a very active promoter. Taking into account the specific features of the crystallochemical structure of talc, the assumption is made concerning the role of thermal and

Card 2/3

USSR /Chemical Technology. Chemical Products and Their Application

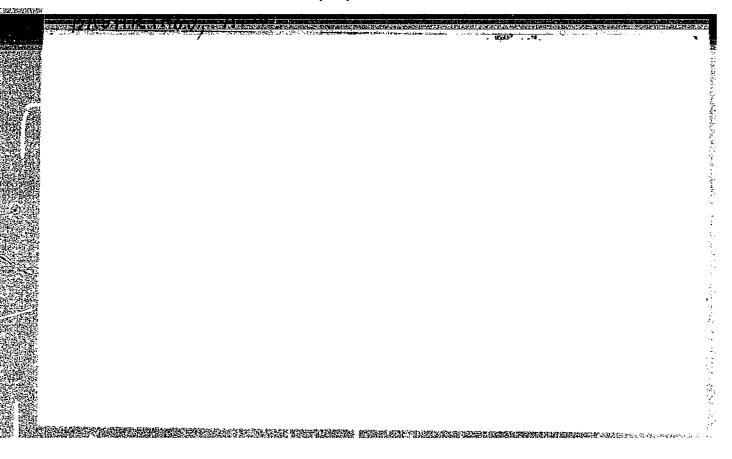
I-17

Industrial organic synthesis

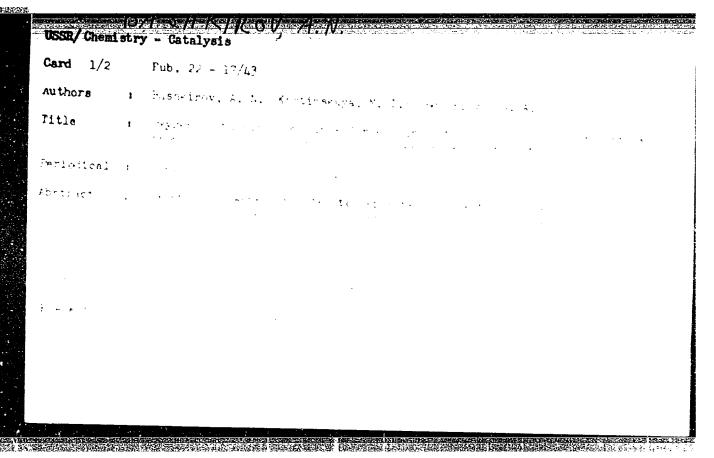
Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32035

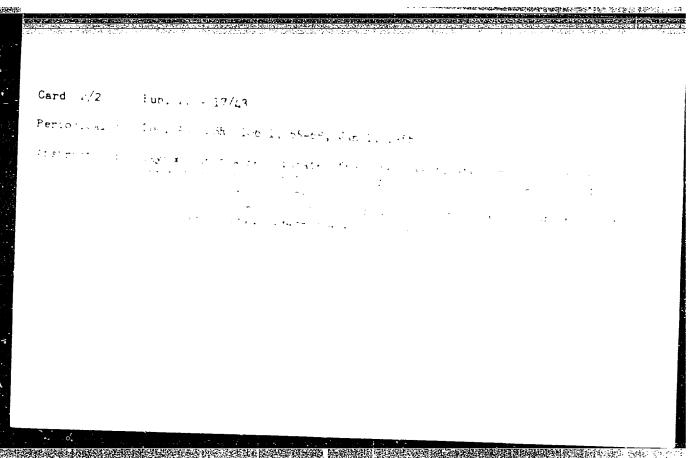
chemical activation in the process of formation of liquid products of the synthesis from Co and ${\rm H}_2$.

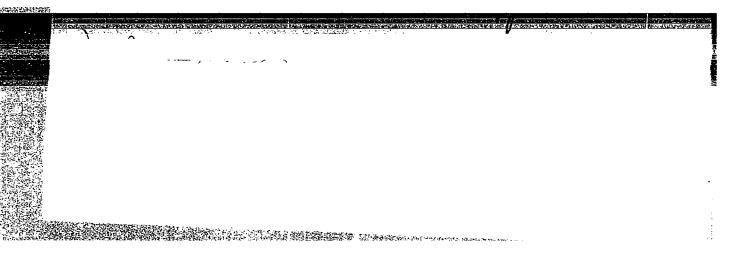
Card 3/3

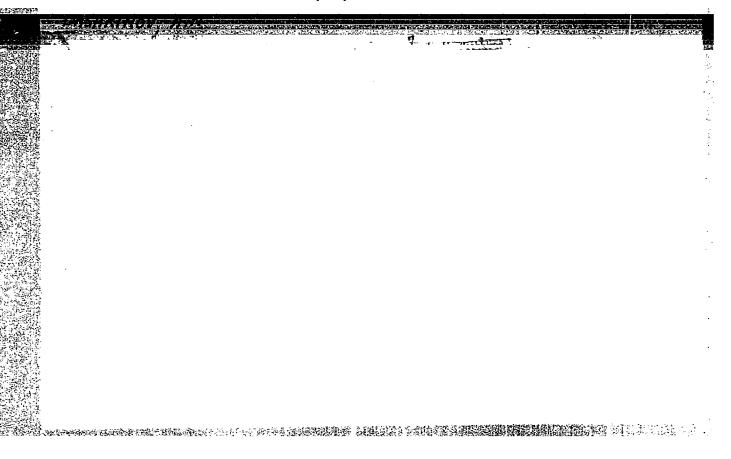


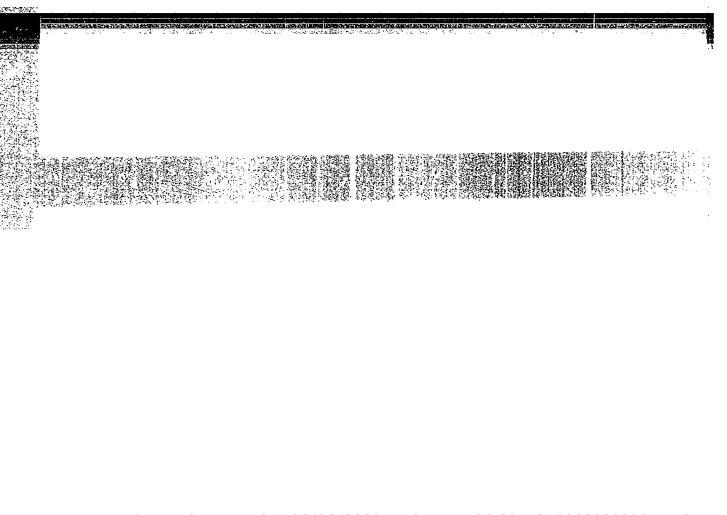
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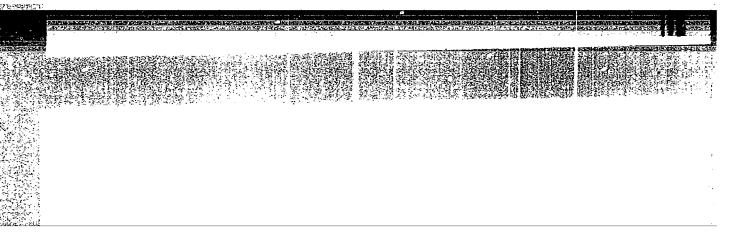


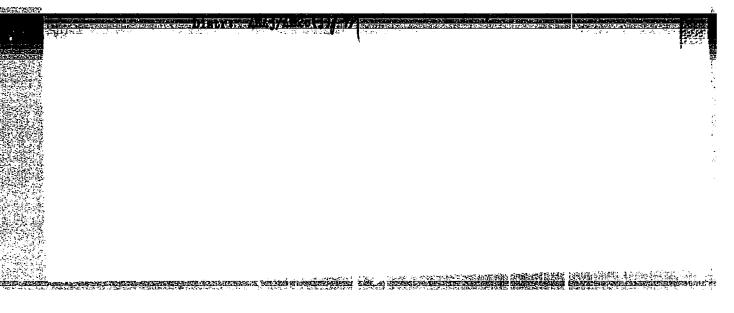












BASHKIROV, A.N.

AUTHOR: Bashkoriv, A.N., Kemzolkin, V.V., Sokova, K.M., and 65-4-2/12

TITIE: Method of determination of primary and secondary higher alcohols of the fatty series in their mixtures. (Metod opredeleniya pervichnykh i vtorichnykh vyssikh spirtov zhirnogo ryada v ikh smesyakh)

PERIODICAL: "Khimiya i Tekhnologiya Topliva i Masel" (Chemistry and Technology of Fuels and Lubricants)1957, No. 4, pp. 7-11 (U.S.S.R)

ABSTRACT: During studies of higher alcohols produced by a direct oxidation of paraffinic hydrocarbons it was found difficult to determine the content of primary and secondary alcohols, as methods described in the literature (2, 3, 4) were found unsatisfactory when the number of carbon atoms in the molecules exceeds eight. The method is based on some regularities in the oxidation reaction of higher n-aliphatic alchols with chromic

Card 1/1 acid in glacial acetic acid. The accuracy of the method on average 5% (Table). There is one table and 6 references including 3 Slavic.

ASSOCIATION: Petroleum Institute Ac.Sc.U.S.S.R. (Institut Nefti AN SSSR)

AVAILABLE:

BASHKIROV, A.N.

AUTHORS: Krykov, Yu.B., Butyugin, V.K., Liberov, L.G., Stepanova, N.D. and Bashkirov, A.N.

TITLE: The use of radioactive carbon for the investigation of the behaviour of methane under conditions of the synthesis of hydrocarbons from CO and H₂ on iron catalysts. (Ispol'zov-aniye radioaktivnogo ugleroda dlya issledovaniya povedeniya metana v usloviyakh sinteza uglevodorodov iz CO i H₂ na zheleznykh katalizatorakh).

PERIODICAL: "Khimiya i Tekhnologiya Topliva i Masel" (Chemistry and Technology of Fuels and Lubricants) 1957, No.6, pp.26-33 (USSR).

ABSTRACT: A critical survey of the literature on the problem of the role of methane in the synthesis of hydrocarbons from CO and H₂ is given. An experimental investigation of the above problem was carried out using methane containing radioactive C¹⁴. Radioactive methane was obtained by hydrogenating Cl40₂ over an Bi-Al₂0₃ catalyst and C¹²0₂

was obtained by decomposing a mixture of BaCO₃ + BaC¹⁴CO₃ with sulphuric acid. The apparatus used for the synthesis of hydrocarbons is described and shown in a diagram. The Card 1/3 catalyst used was developed in the Petroleum Institute of

The use of radioactive carbon for the investigation of the behaviour of methane under conditions of the synthesis of hydrocarbons from CO and H, on iron catalysts'. (Cont.) the Academy of Science of the U.S.S.R., its composition Fe_3O_4 + $10(\text{AL}_2\text{O}_3$ + $\text{SiO}_2)$ + K_2O with an addition of chromium (ref 24). It was obtained by the melting of magnetic iron oxide with activators and crushing the mass produced to 2-3 mm size. Before application the catalyst was reduced in a stream of hydrogen at 1000 C for 1.5 hours. In order to obtain a high activity and stability it was also treated for 18-20 hours at 300 C and 20 atm. pressure with the synthesis gas CO + H₂(1:1) passed with a volume velocity of 1500 hr 1. Some preliminary experiments indicated that a good reproducibility of results was obtained. Typical results are given in tables 2 and 3 and in table 5 results of an experiment with radioactive methane (material balance of the process and the distribution of products obtained) are given. The results of fractional and radio-metric analyses are given in table 4. It was established that under experimental conditions (20-25 atm, 310 C, volume velocity 1150 hr-1, CO:H₂ = 1:1) methane behaves as an inert substance, it does not participate in the format-Card 2/3 ion of higher hydrocarbons and does not enter into the

The use of radioactive carbon for the investigation of the behaviour of methane under conditions of the synthesis of hydrocarbons from CO and H₂ on iron catalysts. (Cont.) reaction of isotope exchange with carbon monoxide, carbon dioxide and hydrocarbons.

There are 5 tables, 1 figure and 29 references, including 10 Slavic.

ASSOCIATION: Petroleum Institute of the Academy of Sciences of the U.S.S.R. (Institut Nefti AN SSSR).

AVAILABLE:

Card 3/3

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203820011-4

Bashkirov, A.N.; Kagan, Yu.B.; LOKTEV, S.M.; MOROZOV, N.G.

Use of iron ore catalysts in the synthesis based on carbon monoxide and hydrogen. Trudy inst. nefti. 10:234-246 '57.

(Catalysts) (Hydrocarbons)

(Catalysts) (Hydrocarbons)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203820011-4"

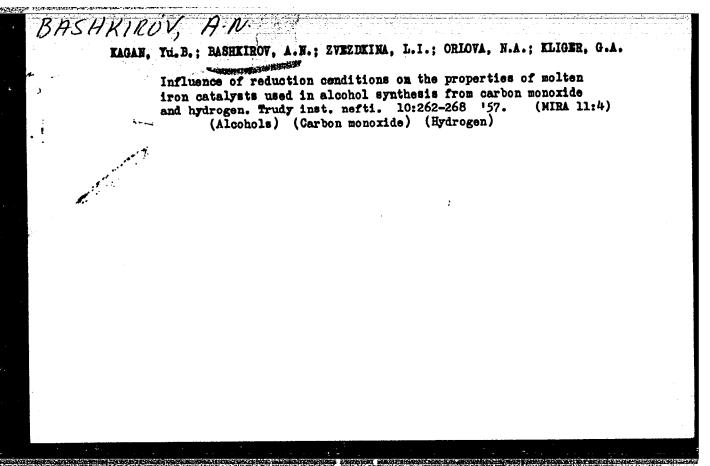
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BASHKIROV, A.N.; KAGAN, Yu.B.; KOKTEV, S.M.; SHCHEKIN, V.V.; GOL'DIN, S.A.; MOROZOV, N.G.

Activating characteristics of molten iron catalysts used in the synthesis based on carbon monoxide and hydrogen, and reduced at high temperatures. Trudy inst. nefti. 10:247-261 '57.

(NITA 11:4

(Catalysts) (Hydrocarbons)



Bashk 1100, A.M

AUTHORS:

Kryukov, Yu. B., Butyugin, V. K., Liberov, L. G., 62-11-23/29 Stepanova, N. D., Bashkirov, A. N.

Synthesis of the Butyl Alcohol Containing the Radioactive Carbon Isotope C14 (Sintez butilovogo spirta, soderzhashchego radioaktiv-TITLE:

Izvestiya AN SSSR, Otdel.Khim.Nauk, 1957, Nr 11, pp. 1404-1406

PERIODICAL:

Here a new method for the synthesis of butyl alcohol, which is tagged by radio-carbon C14, is introduced. This method is characterized by simplicity and a high output of special product. The me-ABSTRACT: thod consists of two phases: magnesium-organic synthesis of

butyric acid with elimination of the latter in the form of sodium-butyrate and the restoration of the salt by lithiumaluminumhydride. The method can be applied for the synthesis of different alcohols containing the radio-carbon C14. It is shown that a synthesis of the tagged butyl alcohol is also possible without preceding elimination of butyric acid by means of immediate re-

storation of the magnesium-organic complex

by lithiumaluminumhydride. There are 2 Slavic references.

ASSOCIATION: Card 1/2

Petroleum Institute of the AM USER (Institut pefti Akademii

CIA-RDP86-00513R000203820011-4" APPROVED FOR RELEASE: 06/06/2000

BASHKIROV, A.N., doktor tekhnicheskikh nauk, professor; KAMZOLKIN, V.V., kandidat khimicheskikh nauk; LODZIK, S.A.

Technological elements of the production of higher fatty alcohols by the direct oxidation of paraffinic hydrocarbons. Masl.-shir.prom. 23 no.7:24-26 '57. (MLRA 10:8)

1.Institut nefti AN SSSR.
(Alcohols) (Hydrocarbons) (Oxidation)

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203820011-4

KRYUKOV, Yu. B., BASHKIROV, A. N., BUTYUGIN, V. K., LIBEROV, L. G. and STEPANOVA, N. D. (Petroleum Institute X AS USSR)

"Intermediate Compounds in the Synthesis of Hydrocarbons and Oxygen-Containing Compounds of Carbon Monoxide and Hydrogen on Iron Catalysts." p. 58.

Topiopse and Radiation in Chemistry, Collection of Import of and All-Cuien Sci. West, Souf. on Use of Radioartive and Stable Joseph and Radiation in National Economy and Science, Moscov, 174-vo. IN SCOR, 1958, 1968.

This volume publishes the reports of the Chamistry Section of the 2nd AU Set Tech Conf on Use of Redicactive and Stable Jacoppes and Redication in Settlers the Matical Economy, specific by Acad. Set. [Milk and Main Admin for Utilization of Atomic Peargy under Council of Minimiers (MR., theseow, 8-12 April 1957.

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EASH KIRCY, A.M.; ERYUKOV, Yu.B.; LOKTEV, S.M.

Formation of the active surface of fused iron catalysts for synthesis from CO and H. Ehim i tekh. topl. i masel 3 no.3: 14-22 Mr '58. (MIRA 11:3)

1. Institut nefti AN SSSR. (Catalysts) (Iron oxides) (Hydrocarbons)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203820011-4"

BASHKIROV, A.N.; KAMZOLKIN, V.V.; SOKOVA, K.M.; ANDREYEVA, T.P.

Position of the hydroxyl group in alcohols produced by liquid phase oxidation of n-paraffin hydrocarbens. Khim. i tekh. topl. i masel 3 no.6:10-16 Je '58. (MIRA 11:6)

1. Institut nefti AN SSSR.
(Hydroxyl group) (Alcohels) (Chemical structure)

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203820011-4

BASHKIROV,

AUTHORS:

Bashkirov. A. N., Kagan, Yu. B., Kliger, G. A. 62-58-4-21/32

TITLE:

Composition of Products Obtained by the Synthesis of Amines of Carbon-, Hydrogen- and Ammonia Monoxide (Sostav produktov sinteza aminov iz okisi ugleroda,

vodoroda i ammiaka)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Otdelente Khimicheskikh

Nauk, 1958, Nr 4, pp. 504-506 (USSR)

ABSTRACT:

Already earlier the authors realized the synthesis of the alkyl amines of CO and ammonia in the presence of molten iron catalysts. The synthetizing products ob= tained contained up to 25% aliphatic amines. Further= more a perfection of the used catalysts was carried out. A stable, active and rather selective catalyst was found. In the presence of the catalyst the authors synthetized on most favorable conditions: from 1 m 120,0 grams of synthesis products (without water). Of these were 54,0% alkylamines (30% of which in liquid and 21,0% in gas state). Tables 1-4 give information on the results of the elementary analysis of some

Card 1/2

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203820011-4

The Composition of the Synthetization Products of the Amines of Carbon-, Hydrogen- and Ammonia Monoxide

62-58-4-21/32

fractions of the destillation and the physical con-

stants of some fractions.

There are 4 tables and 12 references, 3 of which are

Soviet.

ASSOCIATION:

Institut nefti Akademii nauk SSSR (Petroleum

Institute, AS USSR)

SUBMITTED:

November 10, 1957

AVAILABLE:

Library of Congress

1. Catalysts-Synthesis-Study and teaching

Card 2/2

AUTHORS:

Kryukov, Yu. B., Bashkirov, A. N., 62-58-5-22/27

Butyugin, V. K., Liberov, L. G., Stepanova, N. D.

TITLE:

Conversions of Butylene on the Conditions of Synthesis of CO and H₂ by Way of Molten Iron Catalysts (Prevrashcheniya butilena v usloviyakh sinteza iz CO i H₂ nad plavlenymi zhelez-

nymi katalizatorami)

PERIODICAL:

Izvestiya Akademii Nauk SSSR Otdeleniye Khimicheskikh Nauk,

1958, Nr 5, pp. 642-644 (USSR)

ABSTRACT:

The present report is a trial of investigating the ways of conversion of the olefins forming in the process of the synthesis of the hydrocarbons and of the oxygen-containing compounds of CO and H₂. Butylene marked by means of the carbon isotope C¹⁴ in the state (polozhenii) 1 served as indicator of the behavior of olefin under the conditions given by the synthesis. The experiment has shown that butylene does not participate in the formation of alcohols, as well, as in the formation of highest hydrocarbons (by way of C₉) neither and that it is no intermediate product. Butylene can react with CO and H₂ under the investigated conditions by producing a C₅-hydrocarbon. It also submits to dehydration, oxidation and hydro-

Card 1/2

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203820011-4

Conversions of Butylene on the Conditions of Synthesis of CO 62-58-5-22/27 and H₂ by Way of Molten Iron Catalysts

cracking. There are 1 figures, 1 table, and 11 references, 9 of which are Soviet.

ASSOCIATION:

Institut nefti Akademii nauk SSSR (Petroleum Institute

AS USSR)

SUBMITTED:

January 2, 1958

1. Hydrogen isotopes--Synthesis 2. Carbon monoxide--Synthesis

3. Ethylenes--Chemical react.ons 4. Butylene--Chemical reactions

5. Carbon isotopes (Radioactive) -- Applications

Card 2/2

SOW 5-58-6-3/13

Ne Kamzelkin, V. V; Sokova, K. M. and Bashkiner A. N. Andreyeva, T. P. AUTHORS:

The Position of Hydroxyl Groups in Alechols Prepared TITLE:

During the Liquid Phase Oxidation of n-Paraffin Hydro-carbons. (O polozhenii gidroksil ney gruppy v spirtakh, poluchayemykh pri zhidkofaznom okislenii n-parafinovykh

uglevodorodov).

Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr.6. pp. 10 - 16. (USSR) PERIODICAL:

When investigating the position of the hydroxyl groups ABSTRACT:

in the alcohol molecule, the authors used the method of cxidizing alcohols with potassium dichromate in a medium diluted with sulphuric acid (Ref. 4). During the exidation of primary alcohols, carroxylic acids, with the same number of C-atoms as contained in the initial alcohol, are obtained. During the exidation of secondary alcohols, the C-C bonds are split at the hydroxyl groups, and carboxylic acids with a lower number of C atoms in the

molecule are formed. Therefore, it is possible to determine the position of the hydroxyl groups according to the composition of the acids. Some side reactions take

place when the process is carried out in sulphuric acid at increased temperatures. The authors investigated the

Card 1/3

The Position of Hydroxyl Groups in Alcohols Prepared During the Liquid Phase Oxidation of n-Paraffin Hydroxarbons.

oxidation of individual aliphatic alcohols with varying positions of the hydroxyl group (4-tetradecanol and 7-heradecanol) with subsequent identification of the acids. The method of F. Kraft (Ref. 4) was slightly modified, and distillations were carried out according to the method described by L. K. Obukhova (Ref. 5). The height of the rectification column was 40 cm and the diameter 1.4 cm. A mixture of hydroparbons, from which the clefins and aromatic hydrocarbons had been separated, was used as carrier. The content of esters in the fractions was calculated on the basis of the ester number of the fraction. On the basis of the composition of the acids it was possible to conclude that exidation of the alcohols cocurs mainly at the hydroxyl groups. Discrepancies in the rule of Papov occur at increasing distances of the hydroxyl groups from the end hydroxarbon atom. The neutral cxygen-containing compounds (ketones), obtained during the exidation, were subjected to second oxidation reaction. The total yield of acids = 96%. The investigated fractions of alcohols were concluded to be a mixture of isomers of secondary n-hexadecanols in which the isomers are contained in equal molar

Card 2/3

The Position of Hydroxyl Groups in Alcohols Prepared During the Liquid Phase Oxidation of n-Paraffin Hydrocarbons.

quantities. Experimental details on the exidation of the individual alcehols are given. Tables 1 and 2 give the composition of exidation products of alcehols and of their distillates; the distribution of acids is shown in Table 3. During experiments on defining the position of the hydroxyl groups in the alcehols, a fraction of alcehols beiling between 125.0 - 126.8, with an hydroxyl number of 229.5, was exidized The neutral experiments of accordance were subjected to a second exidation reaction. Results are given in Tables 4 and 5. These experiments showed that during the exidation of n-paraffin hydrocarbons in the liquid phase, n-secondary alcehols are formed. The hydroxyl groups of these alcohols are situated at different C atoms of the molecule. It was also found that the reactivity of the secondary C atoms of melecules of higher n-paraffin hydrocarbons to exygen is practically identical. There are 5 Tables and 8 References: 4 Seviet, 2 German, 1 English and 1 Dutch.

Card 3/3

ASSOCIATION: Petroleum Institute, AS USSR (Institut nefti AN SSSR)

SOV/ 65-58-7-7/12

AUTHORS: Bashkirov, A. N; Loktev, S. M. and Sabirova, G. V.

TITLE: Hydrogenation of Aldehydes and Ketones in Mixtures

With Other Organic Compounds. (Gidrirovaniye al'degidov i ketonov v smesyakh s drugimi organicheskimi soyedineni...

yami).

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr.7.

pp. 39 - 45. (USSR).

ABSTRACT: The authors investigated the selective hydrogenation of

compounds containing a carbonyl group to aliphatic alcohols (especially C₅ - C₂₀). Starting materials used were liquid products obtained during synthesis from CO and H₂, fractions of these products, or individual aldehydes and ketones (Table 1). The hydrogenation was carried out in a continuous process. Copper-chrome-barium and nickel-magnesium oxalate, as well as fused iron catalysts, were used (70 - 75 cm⁵). Details of the preparation of the above catalysts are given. Table 2 gives results obtained during the hydrogenation over a copper-chrome-barium catalyst at 100 atms, at various temperatures. Experimental conditions during these experiments were those described by H. Adkins (Ref.3) and D. M. Rudkovskiy (Ref.9). Table 3:

results obtained during the hydrogenation over nickel-Card 1/2 magnesium oxalate catalysts at atmospheric pressure and

SOV/65-58-7-7/12

Hydrogenation of Aldehydes and Ketones in Mixtures With Other Organic

50°C. Iron catalysts were first investigated by V. N. Ipat'yev (Ref.2, 18 and 19). However, the yield of alcohols was low, and the yield of decomposition products high. Very good results were obtained when the hydrogenation was carried out over fused iron catalysts at pressures above 100 atms, and at a temperature of 200°C. Table 4: data on the hydrogenation over Fe₃O₄÷ 1NoO₃. When lithium-aluminium hydride was used in ether solution (Table 5), it was possible to achieve practically complete reduction of the carbonyl and also of other oxygen-containing compounds to alcohols. Yields of alcohols range between 70%-80% for copper-chrome-harium and nickel-magnesium-oxelate. for copper-chrome-barium and nickel-magnesium-exalate catalysts and 90% - 98% for fused iron catalysts. There are 5 Tables, 19 References: 11 Soviet, 3 English and 5

ASSOCIATION: Institut nefti AN SSSR (Petroleum Institute of the Academy of Sciences of the USSR).

1. Aldehydes--Hydrogenation 2. Ketones--Hydrogenation 3. Organic compounds--Hydrogenation

Card 2/2

sov/62-58-10-19/25

AUTHORS:

Kagan, Yu. B., Bashkirov, A. N., Orlova, N. A. Kryukov, Yu. B., Loktev, S. M., Orlova, N. A.

TITLE:

On the Mochanism of the Catalytic Efficiency of Fused Iron Catalysts in the Synthesis of CO and H2 (O makhanizme kataliticheskogo deystviya plavlenykh zheleznykh

katalizatorov sinteza iz CO i H2)

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

PERIODICAL:

1958, Nr 10, pp 1274 - 1275 (USSR)

ABSTRACT:

In an earlier paper the authors showed that immediately after the reduction (by hydrogen at 1000°) fused iron catalysts in the hydrocarbon synthesis of CO and ${\rm H}_2$

are not active any more. Only under the working conditions of the synthesis when the gas mixture CO+H2 is passed through the catalyst gradually becomes active (for 18-20 hours). This phenomenon may be explained by a number of simultaneous reactions competing with each other. Due to the course of these reactions competing with each other the metallic iron regenerates often (under the conditions of the synthesis) from its

Card 1/2

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203820011-4

AUTHORS:

Kryukov, Yu. B., Loktev, S. M., Orleva, N. A.

TITLE:

On the Mechanism of the Catalytic Efficiency of Fused Iron Catalysts in the Synthesis of CO and H2 (O melihanizme kataliticheskogo deystviya plavlenykh zheleznykh

katalizatorov sinteza iz CO i H2)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1958, Nr 10, pp 1274 - 1275 (USSR)

ABSTRACT:

In an earlier paper the authors showed that immediately after the reduction (by hydrogen at 1000°) fused iron cata-

lysts in the hydrocarbon synthesis of CO and H,

are not active any more. Only under the working conditions of the synthesis when the gas mixture CO+H, is passed through the catalyst gradually becomes active (for 18-20 hours). This phenomenon may be explained by a number of simultaneous reactions competing with

each other. Due to the course of these reactions competing with each other the metallic iron regenerates often (under the conditions of the synthesis) from its

Card 1/2

On the Mechanism of the Cat lytic Efficiency of Fused SUV/62-10-19/25 Iron Catalysts in the Synthesis of CO and ${\rm H}_2$

> compounds, and at the surface of the operating catalyst the dynamic equilibrium of the surface phases of different chemical structure is obtained. As a consequence of these processes the activation of the catalyst occurs. Neither the iron itself nor compounds that might be formed from it are the reason for the activation of the catalyst surface. The hypothesis formed for the chain mechanism of the catalytic efficiency of iron catalysts (according to which the synthesis of CO and H, is caused by the reactions of carbon and hydrogen monoxide with iron and its compounds on the surface of the operating catalyst) was described in detail by the authors. There are 1 table and 1 reference, which is Soviet.

ASSOCIATION: Institut nefti Akademii nauk SSSR (Petroleum Institute

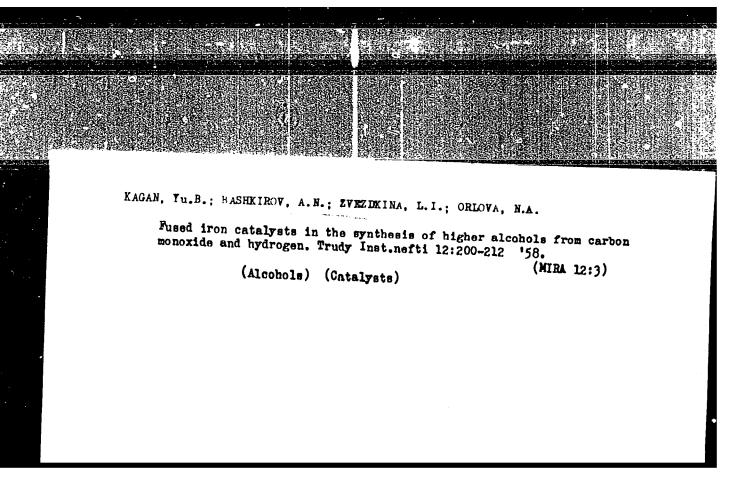
AS USSR)

SUBMITTED:

April 8, 1958

Card 2/2

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203820011-4



BASHKIROV, A.N.; KAMCCLKINA, Ye.V.; KAGAN, Yu.B.

Particular aspects of the decomposition reaction of carbon monoxide to C and CO₂ in the presence of fused iron catalysts. Trudy Inst.nefti 12: 213-227 58. (MIRA 12:3) (Carbon compounds) (Catalysts) (Chemical reaction, Rate of)

KAGAN, Yu.B.; BASHKIROV, A.N.; LOKTEV, S.M.; MOROZOV, N.G.; ORLOVA, N.A.

Effect of the introduction of ferroalloys on the activity and stability of fused iron catalysts for synthesis based on CO and H₂. Trudy Inst. nefti 12:228-239 158.

(NIRA 12:3)

(Catalysts) (Iron alloys) (Chemistry, Organic-Synthesis)

BASHKIROV, A.N.; NOVAK, F.I.

Studying conditions of synthesis from carbon monoxide and hydrogen on talc catalysts. Trudy Inst.nefti 12:240-245 '58. (MIRA 12:3) (Catalysts) (Chemistry, Organic--Synthesis)