GEL'BERG. L.A. kandidat tekhnicheskiy nauk, redaktor; KUTSENOVA, A.A., redaktor; IOMAS, B.Ya., kandidat ekonomicheskikh nauk, redaktor; TOMER, A.M., tekhnicheskiy redaktor

[Problems of economics in the design of dwellings; collection of articles] Voprosy ekonomiki proektirovaniia zhilykh domov; sbornik statei. Pod obshchei red. L.A.Gel'berga. Moskva, Gos. izd-ve lit-ry po stroit. i arkhitekture, 1954. 58 p. (MLRA 8:3)

1. Akademiya arkhitektury SSSR, Mescow. Nauchno-issledovateliskiy institut arkhitektury shilishcha.
(Building--Estimates) (Apartment houses)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

GEL'BERG, A.A.

GEL'BERG L.A. kandidat tekhnicheskiy nauk, starshiy nauchnyy sotrudnik;

A.S. Te.A., inzhener; FEDOROV, G.I.; FORFIR'YEV, M.M., kandidat
tekhnicheskiy nauk; SIGATEV, A.V., kandidat tekhnicheskiy nauk;
KRRUGHROV, M.V., kandidat tekhnicheskiy nauk;
KRRUGHROV, M.V., kandidat tekhnicheskiy redaktor; PEVZMER,
A.S., redaktor; PERSON, M.N., tekhnicheskiy redaktor

[Comparative technical and economic evaluation of apartment houses
having different numbers of stories] Sravnitel'naia tekhniko-ekononicheskaia kharakteristika shiloi zastroiki razlichnoi etashnosti.
Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1954. 68 p.

(MIRA 8:3)

1. Akademiya arkhitektury SSSR, Moscow. Hauchno-isəledovatel'skiy
institut arkhitektury zhilishcha. 2. Institut arkhitektury zhilishcha
(for Gel'berg, Eats, Fedorov) 3. Institut gradostroitel'stva (for
Porfir'yev)

(Apartment house)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

GEL'BERG, Lev Aronovich, kandidat tekhnicheskikh nauk; MEDVEDEV, L. Ya. tekhnicheskiy mdaktor.

[Methods of determining engineering and economic indices of apartment house plans] Metody opredelenia tekhniko-ekonomi-cheskikh pokasatelei proektov shilykh domov. Moskva, Gos.izd-volitury po stroitel'stvu i arkhitekture, 1955. 179 p. (MLRA 8:8) (Apartment houses)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

OEL'BERG, L.A., kandidat tekhnicheskikh nauk; KATS, Ye.A.,
Inshener; ECLOTILKIN, B.M., kandidat tekhnicheskikh nauk;
YBDOROV, G.I., inshener; EUYSENOVA, A.A., redaktor isdatel'stve;
TOEMR, A.M., tekhnicheskiy redaktor

[Designs of four- and five-story apartment houses; a technical and economic analysis]Planirovocchaye resheniia chetyrekhand economic analysis ec

GEL'BERG, Lev Aronovich, kand.tekhn.nauk; KOLOTILKIN, Boris Michaylovich, kand.tekhn.nauk; ZAKHARENKOV, G.N.; BOBKOV, V.T.; VOTINOV, A.P., red.; FURMAN, G.V., tekhn.red.

[Data for lectures on the subject: "Housing construction in the sixth five-year plan and means of reducing its cost"; approved by the office of the Section on Construction, Architecture, and Building Materials] Material k lektsii na temu: "Zhilishchnoe stroitel'stvo v shestoi piatiletke i reservy snisheniia ego strimosti"; odobren biuro sektsii po stroitel'stvu, Arkhitekture i stroitel'nym materialam, Moskva, Ob-vo po rasprostraneniiu polit. i nauchnykh snanii RSFSR, 1958. 46 p. (MIRA 11:12)

1. Zav. otdelom nauchno-tekhnicheskoy propagandy Pravleniya Obshchestva RSFSR (for Zakharenkov). 2. Referent otdela nauchnotekhnicheskoy propagandy Pravleniya Obshchestva RSFSR (for Babkov). (Housing)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

SOPIESKIY, I.D.; BLOKHIE, P.N.; GELERED, L.M.; ZHDANOV, P.M.; IVASHCHENKO, I.P.; LEVINA, G.P.; BAUMOVA, N.A.; SMIRHOV, N.S.; ARONOVA, R.I.; HIKOLAYEV, N.A.; SHERESTSIG, A.A.; KOVALEVSKIY, I.I.; LOBACHEV, P.V.; SLAUKOV, S.P.; DZIGAH, A.V.; FORAFONOV, N.K. Primineli uchastiye: ARGANSKIY, A.S.; ASMUS, Ye.M.; BRZHALOVA, Ye.M.; BOGATYKH, Ya.D.; BURENIH, V.A.; GOL'DING, N.P.; DOMSHLAK, I.P.; MOSKALEV, S.A.; RABINOVICH, S.G.; ROGOVSKIY, L.V.; KHOKHLOVA, L.P.; SHESTOPAL, N.M., HUBANENKO, B.R., glavnyy red.; OALKIN, Ya.G., zamest.glavnogo red.; SAPRYKIW, V.A., red.; SHCHEPSTOV, V.M., red.; MOVITCHENKO, K.M., nauchbyy red.; VILKOV, G.N., inzh., red.izd-va; TYAPKIN, B.G., red. izd-va; KL'KINA, B.M., tekhn.red.

[Building your own home] Spravochnik individual nogo mastroishchika.

Moskva, Gos.izd-ve lit-ry po streit.materialam, 1958.

(NIRA 12:2)

1. Akademiya stroitel stva i arkhitektury SSSR. (Building)

GML BERG, L.

Reconomic research of the Institute of Housing of the Academy of Construction and Architecture of the U.S.S.R. Vop. ekon. no.3: 157-158 Mr *58. (MIRA 11:4)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

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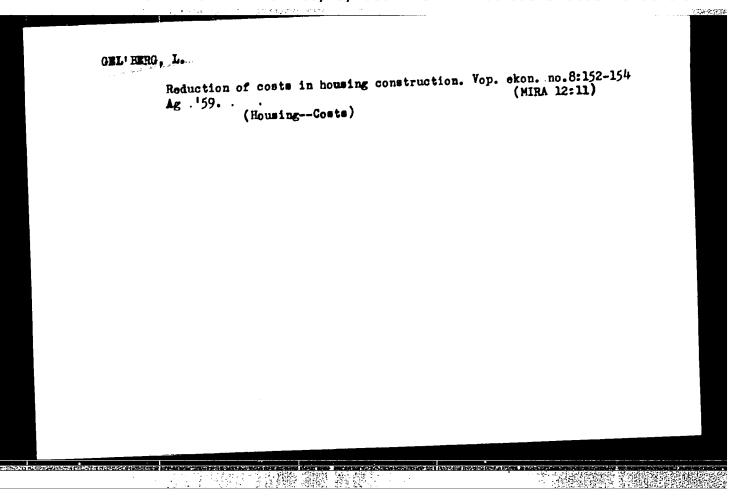
CIA-RDP86-00513R000514610018-5

GEL BERG, L.A., kand.tekhn.nauk

Technical and economic characteristics of various types of
apartment houses and selection of most efficient planning
solutions. Trudy MIEI no.9:61-79 '58.

(Apartment houses)

(Apartment houses)



化三角电影 養養 医囊胚

BRONER, D.L.; GEL'BERG, L.A., kand. tekhn. nauk; KATS, Ye.A.; PEKLER, A.N.; FILATOV, N.L.; MORSKOY, K.L., red. izd-va; OSENKO, L.M., tekhn. red.

[Ways to lower apartment house operating expenses; on the basis of choosing efficient plans] Puti snizhenija raskhodov po ekspluatatsii zhilykh domov; na osnove vybora ratsional'nykh proektnykh reshenii. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1960. 109 p. (MIRA 14:9)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut zhilishcha. (Apartment houses-Accounting)

GEL'BERG, L.A., kand.tekhn.rauk; FEDCROV, G.I., kand.tekhn.rauk

Changing the estimated cost of apartment houses when adapting them to local building conditions. Izv. ASiA no.2:89-93 '61.

(MIRA 15:1)

(Apartment houses—Cost of construction)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

GEL'BERG, L.A.; FEDOROV, G.I.; ZAL'TSMAN, A.M.; KAPUSIYAN, Ye.D.;
EAYAR, O.G.; DELLE, V.I.; SHEREHITSIS, A.A.; MAKLAKOVA, I.G.;
POIFED, Yu.B.; KOLOTILKIN, B.M.; GLADKOV, B.V.; GAVALOV,
O.V., red.; GOLOVKINA, A.A., tokhn. red.

[Housing construction in the U.S.S.R.; present state and
prospects for development]Zhilishchmoe stroitel'stvo v SSSR;
soutoianie i perspektivy razvitiia. Moskyn, Gosstroiizdat,
1962. 202 p.

(Apartmont houses) (Construction industry)

一位的基础的影響的

GEL BERG, L.A., kand. tekhn. nauk; LYUBIMOVA, M.S., kand. tekhn. nauk;

PAFSHINA, K.G., kand. tekhn. nauk; KIRSANOVA, M.K., kand. tekhn.
nauk; ZVORYKIN, D.N., kand.tekhn.nauk; ZHAGELEVA, I.I., inzh.;
nauk; ZVORYKIN, D.N., kand.tekhn.nauk; ZHAGELEVA, I.I., inzh.;
Prinimala uchastiye LAZAREVA, N.N., inzh.; GLAZUNOVA, Z.M., red.
izd-va; SHEVCHENKO, T.N., tekhn. red.

[Economics of large-panel housing construction] Ekonomika krupno-panel nogo zhilishchnogo stroitel stwa. [By]L.A.Gel berg i dr. Moskva, Gosstroitedat, 1962. 153 p. (MIRA 16:3) (Precast concrete construction)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

Technical and economic characteristics of the principal types of apartment houses. Zhil.stroi. no.3:14-15 '62. (MIRA 15:9)

(Apartment houses)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

CEL'BERG, L.A., kand.tekhn.nauk; FEDCROV, G.I., kand.tekhn.nauk

Present-day state housing construction and ways of improving it.,

Izv.ASia 4 no.1:47-56 '62. (MIRA 15:11)

(Building research)

GEL'BERG, L., kand. tekhn. nauk; FEDOROV, G., kand. tekhn. nauk

Characteristics of new state housing in cities.
Zhil. stroi. no.9:7-9 '65.

(MIRA 18:11)

Indine content of water supply sources in relation to the distribution of endemic goiter. Trudy ISCMI no.56:221-236
'60. (TRANSYLVANIA—GOITER) (IODINE)
(TRANSYLVANIA—WATER—ANALYSIS)

35136 8/058/62/000/002/051/05U A001/A101

26.2532

AUTHORS: Korshunov, V. A., Gelid, P. V.

TITLE: Electric conductivity and thermo-emf of manganese silicides

(宋) : 宋(宋) ·

PERIODICAL: Referativnyy shurnal, Fizika, no. 2, 1962, 2, abatraet 2-4-3shch ("Tr. Ural'skego politekim. in-ta", 1961, no. 114, 164 - 165)

TEMT: Electric conductivity of and thermo-emf for of Mn silicides were investigated. The values of G and A (1,500 - 10,000 ohm cm cm and from +15 to +20 Mv/degree) for Mn₂Si, Mn₅Si₃ and MnSi are compared with those of the higher silicide MnSi_{1.57} - MnSi_{1.57} (200 - 600 ohm cm and from +70 to +110 µv/degree), and conclusion is drawn as to the metallic nature of the former and semi-metallic nature of the latter. The concentration of current carriers in the higher silicide saturated with silicon, presenting a special interest for using as a thermogenerator, is near the optimum for thermopiles at 20°C, and its efficiency in the range from 300 to 1,000°K amounts to ~65. Its efficiency will possibly be raised by alloying. It is noted that the results of measuring G and x of pure in silicides indicate that impurities present in commercially pure components (Fe, Al,

Card (1/2)

Electric conductivity and...

\$/058/62/000/002/051/053 A001/A101

Electic conductivity and...

Ca) do not change qualitatively electrical properties of Si-Mn alloys. There are 4 references.

E. P.

[Abstracter's note: Complete translation]

Card 2/2

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SEREBRENNIKOV, N.N.; GEL'D, P.V.

Heat content and heat capacity of titanium at high temperatures. Izv. vys. ucheb. zav.; tsvet. met. 4 no.4:80-86 161. (MIRA 14:8)

1. Ural'skiy politekhnicheskiy institut, kafedra fiziki. (Titanium-Thermal properties) (Metals at high temperature)

CIA-RDP86-00513R000514610018-5" APPROVED FOR RELEASE: 08/23/2000

Equilibrium in the reduction of niobium pentoride by

hydrogen. Izv. vys. ucheb. zav.; tsvet. met. 4 no.5:145-151
161. (MIRA 14:10)

1. Ural'skiy politekhnicheskiy institut.
(Niobium oxide) (Vapor-liquid equilibrium)

351.88

s/078/62/007/004/007/016 B110/B101

15.2240

Alyamovskiy, S. I., Gel'd, P. V., Matveyenko, I. I.

AUTHORS:

Concentration ranges of the stability of niobium silicides at

TITLE:

1250°C

Zhurnal neorganicheskoy khimii, v. 7, no. 4, 1962, 836-843 PERIODICAL:

TEXT: The alloys of the Nb-Si system were investigated. Sodium thermic niobium (99.7% Nb) and purified Si (99.98% Si) (size of particles \sim 90 μ) was briquetted at 6-7 ton/cm². High volatilization of Si and concentration of Nb was observed during the silicide synthesis in the vacuum furnace at 1300-1500°C. The briquetted charge was therefore degassed at 800°C in a vacuum furnace and subsequently sintered for 3-4 hrs at 1150°C under spectroscopically pure He. The product was ground, briquetted, and further sintered in a sealed, evacuated quartz ampulla for ~5 hrs at 1250°C. It was then cooled in the furnace during 10 min to 200°C. 27 samples between NbSi 0.15 and NbSi 2.30, as well as NbSi 3°C and NbSi 3°C were studied under the metallographic MUM-7 (MIM-7) or MUM-8M (MIM-8M) microscope and by X-ray diffraction. In samples with < 14% Si, (1) the solid solution of Si Card 1/3

S/078/62/007/004/007/016 B110/B101

Concentration ranges of the ...

in Nb and (2) α-Nb₅Si₃ were ascertained. No No₄Si was found. The lattice constants of the phase components from NbSi_{0.15} to NbSi_{0.55} were identical. The alloys with the stoichiometric composition of Nb₅Si₃ and NbSi₂ were monophase. NbSi₂ was hexagonal (a = 4.785 kX, c = 6.58 kX), α-Nb₅Si₃ was tetragonal (a = 11.84 kX, c = 6.54 kX). NbSi_{0.50}-NbSi_{0.80} the alloys tetragonal (a = 11.84 kX, c = 6.54 kX). NbSi_{0.50}-NbSi_{0.80} the alloys (2) slightly solid solution of Si in Nb. NbSi_{0.60}, NbSi_{0.62}, NbSi_{0.64} and (2) slightly solid solution of Si in Nb. NbSi_{0.60}, NbSi_{0.62}, NbSi_{0.64} and (2) slightly solid solution of Si in Nb. NbSi_{0.60}, NbSi_{0.62}, NbSi_{0.64} and NbSi_{0.66} are monophase. The identity periods of all lattices practically coincide. By adding ~2% carbon black or NbO (related to ~3% O₂) to Nb-Si mixtures γ-Nb₅Si₃ and the phase component Nb-Si-C(0) were obtained. The latter points toward isomorphous behavior of C and O on interaction with α-Nb₅Si₃. In the range NbSi_{1.70}-NbSi_{2.30} a diphase state consisting of α-Nb₅Si₃ and NbSi₂ was detected for NbSi_{1.70} and NbSi_{1.80}; the following

Card 2/3

Concentration ranges of the ...

S/078/62/007/004/007/016 B110/B101

were monophase (NbSi₂): NbSi_{1.07}, NbSi_{1.90}, NbSi_{2.00} and NbSi_{2.10}. For NbSi_{2.20}, NbSi_{2.29} and NbSi_{2.30} were found: NbSi₂ and Si. The density drops with increasing Si content. The thermo emf and the identity periods of the lattices of samples in the homogeneity range of α-Nb₅Si₃ and NbSi₂ hardly change with the composition. NbSi₂ has p-type, α-Nb₅Si₃ has n-type conductivity. It is supposed that the not found Nb₄Si is only stable above 1500-1600°C. The proportional change of the alloy densities with the composition and the unimportant sensitivity of the interplane distances to the composition best explained with the formation of solid solutions by substitution, supposing approximately equal dimensions of the Nb and Si atoms in Nb-Si alloys. There are 1 figure and 4 tables. The most important English-language reference is: H. J. Goldschmidt, J. Iron and Steel Inst., 194, 169 (1960).

SUBMITTED:

June 1, 1961

Card 3/3

GEL'BERG, S. I.

Gel'berg, S. I. and Finkel', Ye. A. "Observations of the activity of EGG vaccine in connection with the method of preparing it and the conditions and duration of storage," [With editor's note], Byulleten' In-ta tuberkuleza Akad. med. nauk SSSR, 1948, No. 4, p. 23-27

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 191.9)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

GEL'BERG, S. I.; AMINOVA, M. G.; TVERITINOVA, A. M.

"Treatment of Diphtheria Carriers With Soviet Gramicidin," <u>Trudy</u>
<u>Instituta Epidemiologii i Mikrobiologii Ministerstva Zdravookhraneniya Kirgizskoy SSR,</u>
Frunze, Vol 1, 1951, pp 30-34.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514610018-5

GEL'BERG, Z. I. and ZUBAFEVA, A. I.

"Experiments on the Use of Soviet Gramicidin and Penicillin in the Purification of Smallpox Vaccine From Foreign Microflora," Trudy Instituta Epidemiologii i tion of Smallpox Vaccine From Foreign Microflora, Frunze, Vol 1, 1951, pp 40-43. Mikrobiologii Ministerstva Zdravookhraneniya Kirgizskoy SSR, Frunze, Vol 1, 1951, pp 40-43.

GEL'BERG, S. I.; AMINOVA, M. G.; TYERITINOVA, A. M.

"Treatment of Diphtheria Carriers With Soviet Gramicidin," Sbornik Nauchnykh Trudov Kirgizskogo Gosudarstvennogo Meditsinskogo Instituta, Frunze, Vol 7, 1951, pp 249-258.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514610018-5

GEL'BERG, Samuil Josel'-Khaimovich Name:

Dissertation:

Experimental study of the activity of BTsK /3/ vaccine in connection with the problem of increasing the effecti-

veness of specific prophylaxis of

tuberculosis

Degree: Doc Med Sci

Kirgiz State Med Inst Affiliation:

7 Dec 55, Council of Tashkent State Med Inst imeni Molotov Defense Date, Place:

26 May 56 Cortification Date:

Kir SSR

Source: BMV0 4/57

CIA-RDP86-00513R000514610018-5" APPROVED FOR RELEASE: 08/23/2000

P-6

GELBERG, SIZ

USSR /Microbiology. Medical and Veterinary

Microbiology.

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 35716

Author : Gelberg, S.I.; Finkel, E.A.

: A Study of the Acclimatization of the Microbacteria Title

BTsZh by the Method of Marked Cultures in an

Experiment

Orig Pub: Zdravookhr. Belorussii, 1956, No. 5, 22-27

The acclimatization and the dynamics of the vege-Abstract:

tating of microbacteria of the active vaccine

BTsZh was studied in guinea pigs and mice by means of a bacteriological study of the lymphatic nodes and the internal organs of the animals after various periods of the injection of the vaccine. It was discovered that an adaptation of the bacteria occurs soon after the injection,

card 1/3

USSR /Microbiology. Medical and Veterinary Microbiology.

F-6

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 35716

and during this phase, the screenings show a negative result. After the phase of adaptation, there sets in a phase of maximum reproduction in the lymphatic nodes and internal organ, then passing through a distinct period into a fixed phase. This latter is characterized by a less intensive reproduction of the microbacteria as a result of the development of the immunological reactions of the organism in response to the activity of the vaccine microbes. Gradually this phase is replaced by the phase of a dying of the vaccine infection, the siftings from which yield either sparse growths, or a negative result. To clarify the fate of the microbes, in each of the second vaccinations and revaccinations, strains of BTsZh were used which were resistant to

Card 2/3

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USSR /Microbiology. Medical and Veterinary Microbiology.

F-6

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 35716

streptomycin and phtivazid. Such resistant strains analyzed as marked since they possessed a selective capability of growth in nourishing media containing corresponding medicinal preparations. By using these strains the authors obtained the ability to distinguish the distribution of the microbes after each of the repeated vaccinations and the continuity of their vegetating.

Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

GEL'BERG, S.I.: FINKEL', Ye.A.; BELETSKIY, V.I.; DANOVICH, S.M.; TSATSKIHA, E.S.

Combined entero-cutaneous method of immunization with BCG vaccine.

Probl.tub. 34 no.4:48-53 J1-Ag '56.

(MIRA 9:11)

1. Is kefedry mikrobiologii (zav. S.I.Gel*berg) Kirgisekogo meditsin-

skogo instituta.
(BCG VACCIMATION, exper.
entero-cutaneous method of admin. in mice & guinea pigs)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

USSR/Microbiology - Microbes Pathogenic for Man and Animals. Dacteria. Mycobacteria.

F

: Ref Zhur Diol., No 22, 1958, 99509 Abs Jour

Gel'berg, S.I., Finkel', Ye.A., Gel'berg, I.S. Author

Preparation of Labeled Cultures of ECG and Virulent Inst Tuberculous Mycobacteria with the Aid of Antibiotics Title

and Chemotherapeutic Drugs.

: Probl. tuberkuleza, 1957, No 9, 105-108 Orig Pub

: By cultivating for a period of 11 months of the strain Abstract

DCG-1 and of the virulent strain of tubercle bacilli "Ravenel" on an egg medium in the presence of gradually increasing quantities of streptomycin (S) or phthivazide (P), cultures were obtained which were resistant to 20,000 units of S in 1 ml of the medium (DCG-S and "Ravenel"-S) or to 1,000 of P in 1 ml of the medium

(BCG-P and "Ravenel"-P). The obtained resistant strains

Card 1/2

- 101 -

USSR/Microbiology - Microbes Pathogenic for Man and Animals.

Bacteria. Mycobacteria.

Abs Jour : Ref Zhur Diol., No 22, 1958, 99509

of ECC did not differ from the original strain in the activity of multiplication in the originals, and in the sensitizing and immunizing properties. The resistant cultures of the strain "Ravenel" possess a virulence for guinea pigs identical with the original strain. The obtained cultures do not multiply in the presence of other antibiotics towards which they remain sensitive. It is the opinion of the authors that the cultures obtained by them are labeled since they possess biological properties identical to those of the original strains and are easily detected among microbes of this type due to the characteristic of therapeutic resistance. The authors are utilizing these strains in experimental investigations of vaccination and immunity in tuberculosis.

-- G.Ye. Frunking

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

OKL'BERG, S.I.; FINKEL', Ye.A.; GKL'BERG, I.S.

Producing tagged cultures of BCG and virulent Mycobacterium tuherculosis with the aid of antibiotics and chemotherapeutic agents

[with summery in French]. Probl.tub. 35 no.8:105-108 '57.
(MIRA 11:4)

1. Is kafedry mikrobiologii (zav. S.I.Geliberg) Kirgizakogo gosudaratvennogo meditainakogo inatituta.

(MYCOBACTERIUM TUBERCULOSIS, culture

labeled cultures on egg medium with addition of antibiotics & chemother, agents (Rus))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

GEL'BERG, S.I.; FINKEL', Ye.A.

Method of experimental study of immunogenic properties of antituberculosis vaccine and the effectiveness of methods of its use. Probl.tub. 37 no.2:80-84 59. (MIRA 12:9)

1. Iz kafedry mikrobiologii (mav.S.I.Gel'berg) Kirgizskogo meditsinskogo instituta. (BCG VACCIMATION, exper. immunogenic properties in guinea pigs (Rus))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

SUPRON, L.F., dots., otv. red.; ARINCHIN, N.I., prof., red.; GEL'BERG, S.I., prof., red.; KLEPATSKIY, B.I., prof., red.; LIBERZON, G.Ya., prof., red.; NOVIKOV, I.I., kand. med.nauk red.; RAZUMOVICH, A.N., assistent, red.

[Abstracts of the reports of the Fourth Scientific Session on the Problem: Physiology, Morphology and Pathology of the Cardiovascular System] Tezisy dokladov Nauchnoi sessii po probleme: Fiziologiia, morfologiia i patologiia serdechnososudistoi sistemy. Grodno, Grodnenskii med. in-t, 1962. 207 p. (MIRA 17:10)

1. Nauchnaya sessiya po probleme: Fiziologiya, morfologiya i patologiya serdechno-sosudistoy sistemy, 4th, 1962. 2. Zave-duyushchiy kafedroy patologicheskoy fiziologii Grodenskogo meditsinskogo instituta (for Supron). 3. Zaveduyushchiy kafedroy normal'noy fiziologii Grodenskogo meditsinskogo instituta (for Arinchin). 4. Kafedra normal'noy anatomii Grodenskogo meditsinskogo instituta (for Novikov). 5. Zaveduyushchiy kafedroy mikro-biologii Grodenskogo meditsinskogo instituta (for Gel'berg). 6. Zaveduyushchiy kafedroy obshchey khirurgii Grodenskogo meditsinskogo instituta (for Klepatskiy). 7. Zaveduyushchiy kafedroy nervnykh bolezney Grodenskogo meditsinskogo instituta (for Liberzon). 8. Kafedra biokhimii Grodenskogo meditsinskogo instituta (for Liberzon). 8. Kafedra biokhimii Grodenskogo meditsinskogo instituta (for Razumovich).

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514610018-5

GELEGRG, E.I.; FINKEL, E.A.; KIHRIK, B.L.; GELHERG, I.J.

Experimental vindication of the immunochemical prophylaxis of tuberculosis. J. hyg. epidem. (Praha) 9 no.1:18-30 165

1. Grodno Medical Institute and Kirghiz Tuberculosis Research Institute, Grodno.

MAKAYEV, M.A.; GEL'HERG, Ya.L (Vitebsk) On the road to technical progress. Shvein.prom. no.5:11-14 8-0 (MIRA 13:12) (Clothing industry)

"Application of Solid Elective Tetrathionic Solid for Separation of Solid Elective Tetrathionic Solid for Separation of Solid Elective Tetrathionic Solid for Separation of Solid Elective In Sanitation-Solid Elective Tetrathionic Solid for Separation Solid Election Solid Elect

GEL BERGER, MG

USSR/Chemical Technology. Chemical Products and Their Application -- Water treatment. Sewage water, I-11

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5383

Author: Cherkinskiy, S. N., Mats, L. I., Rossovskaya, V. S., Gel'berger,

M. G., Dmitriyeva, L. V.

Institution: None

Title: Effectiveness of Water Disinfection by Ultraviolet Radiation at

the Pilot Plant of the Academy of Communal Economy

Original

Publication: Gigiyena i sanitariya, 1953, No 10, 8-14

Abstract: No abstract

Card 1/1

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

GEL'BERGER, M.G., kand.biol.nauk

Practical significance of analysis of washing from equipment and hands. Gig. i san. 23 no.5:53-55 My *58 (MIRA 11:6)

1. Iz Moskovskoy oblastnoy sanitarno-epidemiologicheskoy stantsii. (SANITATION.

value of analysis of washings from food equipment
& hands (Rus))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

OEL BERGER, M.G.; MUR, M.G.; FRIDMAN, Yu.M.

Bacteriological investigations of sour Milk and cottage cheese sold at collective farm markets. Vop.pit. 18 no.5:81 S-0 159.

(MIRA 13:1)

1. Iz Moskovskoy oblastnoy sanitarno-epidemiologicheskoy stantsii. (DAIRY PRODUCTS microbiol.)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

GEL BERGER, M.G.

Some remarks on standardized sanitary bacteriological examinations. Uch.zap.Mosk.nauch.issl. inst.san. i gig. no.4:11-14 (MIRA 16:11)

Recovery of Salmonella from the feces of persons sicj with dysentery and enterocolitis. Tbid. \$71-74

1. Moskovskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya.



APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

AHZAMASOVA, Z.A., kand.biologicheskikh nauk; GEL'BEHGER, M.G., kand. biologicheskikh nauk; DERBEMEVA-UKHOVA, V.P., prof.; ZAKHAROVA, N.F., nauchnyy sotrudnik; KIRPICHNIKOV, A.A., kand.tekhn.nauk.

Mechanized biothermic decontamination of refuse. Gig. i san.28 no.1:13-17 Ja¹63. (MIRA 16:7)

1. Is Akademii kommunal'nogo khozyaystva imeni K.D.Pamfilova.
(REFUSE AND REFUSE DISPOSAL)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

CHERKINSKIY, S.N.; MATS, L.I.; ROSSOVSKAYA, V.S.; GEL'BERGER, N.S.; DMITRI'YEVA, L.V.

Reflectiveness of water purification by ultraviolet irradiation at an experimental industrial center of the Academy of Municipal Economics.

Olg. sanit., Noskva no.10:8-14 Oct 1953.

1. Of Scientific-Research Sanitary Institute ineni Brisman.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

三者 2000 日本養養養養 1600

10

GIETSBURG, Ya.S., kandidat tekhnicheskikh nauk; KUIRTAVTSEV, I.V., professor, doktor tekhnicheskikh nauk, retsensent; GEL! HERMAE, L. Sh., kandidat tekhnicheskikh nauk, redaktor.

[Testing of metals at high temperatures] Ispytania metallow pri povyshennykh temperaturakh. Moskva, Gos. nauchno-tekhn. isd-vo mashipostroit. i sudostroit. lit-ry, 1954. 251 p. (MLRA 7:8) (Notals--Testing) (Motals at high temperatures)

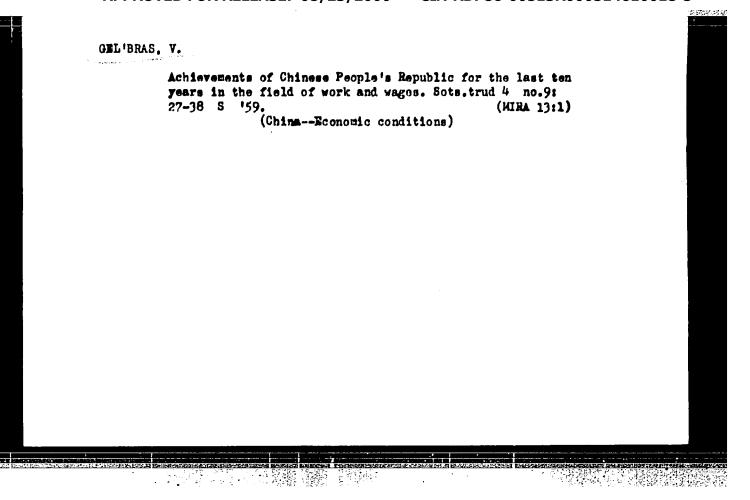
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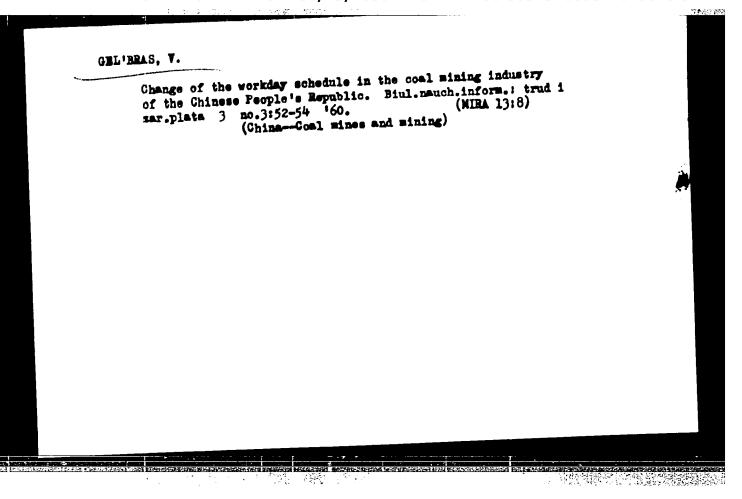
SERGEYEV, P. (Ordshonikidze); YAROPOLOV, G. (Leningrad); YENDOKIMENKO, I., inshnere-mekhanik (Chernigov); MIKHALEV, V. (Moskva); BUSLAYEV, V.; GEL'HRAS, A.; SANOTLOV, K. (Moginsk)

Opening the mail. Tekh.mol. 29 no.9:32-33 '61. (MIRA 14:10)

(Technological innovations)



Review of job classification manuals in the Chinese People's Republic. Biul.nauch. inform.; trud i zar plata 3 no.1:64-65 '60. (China-Job analysis)



GEL'ERAS, V.; ZARUEOV, N.

Several methodological problems of comparing labor productivity standards in industries of Socialist countries. Biul. nauch. inform.: trud i zar. plata 3 no. 11:50-54 '60. (MIRA 14:1) (Gommunist countries—Labor productivity)

(Gommunist countries—Labor productivity)

"Improving the forms of industrial management in the European people's democracies." Reviewed by V.Gruzinov, V.Gel'bras. Vop. ekon. no.4:124-129 Ap '62. (MIRA 15:4)

(Europe, Eastern-Industrial management)

| in the 1 | improtant condition for increasing labor product dustry of socialist countries. Sots.trud 8 no.4 (MIRA | ;:11-20 16:4) |
|----------|--|------------------|
| Ap 163. | (Europe, Eastern-Labor productivity) (Mutual Expnomic Assistance Council) | |
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GEL' BRNS, U.C.

Arturov, O.A., Deceased, Gel'bras, V.G., Mayorova, T.G. AUTHORS:

3-1-50/52

TITLE:

Against a Superficial Representation of the Economy of People's China (Protiv poverkhnostnogo osveshcheniya eko-

nomiki narodnogo Kitaya)

PERIODICAL:

Vestnik Vysshey Shkoly, 1958, # 1, pp 32-87 (USSR)

ABSTRACT:

The article contains a criticism of A.M. Kosolapov's lecture, now published as a booklet entitled "The Economic Structure of the Chinese People's Republic". The book deals with the economic background of the Chinese revolution and the conversion of economy on a socialistic basis. The criticism is partly a doctrinaire dispute of the reviewers who, on many points, disagree with the views set forth by Kosolapov. Thus, for instance, according to the reviewers' opinion, Kosolapov sees the objective premises of the Chinese revolution mainly in the crisis of the capitalistic world's economic system, and examines the internal contradictions existing in China only superficially. The reviewers, however, consider that the aggravation of the internal and external contradictions have created objective conditions for a revolution. They further state that the booklet contains flat inaccuracies which have distorted the

Card 1/2

STREET, STREET,

3-1-30/32

Against a Superficial Representation of the Economy of People's China

sense of the revolution's phenomena and processes.

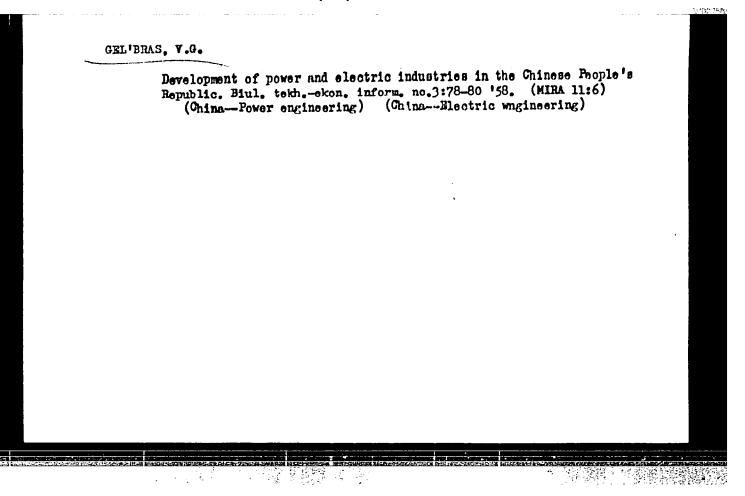
The reviewers claim that in the booklet the position of the classes in the country, the moving forces of the revolution, and the role of the working class and its leader the Communist Party - have been poorly represented. This, in the reviewers' opinion, is due to the fact that Kosolapov is lacking a clear understanding of the country's economic situation.

They further object to the statistical figures not being always correct, and in conclusion they regret that the Leningrad University has recommended the booklet to instructors and students as an aid for the course of political economy. There are 6 Chinese references.

ASSOCIATION:

The Scientific-Research Institute of Labor, State Committee of the USSR Council of Ministers on Questions of Labor and Pay (Nauchno-issledovatel'skiy institut truda gosudarstvennogo komiteta Soveta ministrov SSSR po voprosam truda i zarplaty)

AVAILABLE: Card 2/2 Library of Congress



Measures for the improvement of the vocational training of personnel in the Chinese People's Republic. Biul.nauch.inform.: trud i sar.plata no.5:59-62 '59. (MIRA 12:6) (China--Vocational education)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

GELIBRAS, V.

ABOUT A STATE OF THE STATE OF T

New bonus system in enterprises of the Chinese Peoples's Republic. Biul.nauch.inform.: trud i sar.plata no.12:54-56 *59. (MIRA 13:10) (China-Bonus system)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

AD A STATE OF THE STATE OF THE

AUTHOR:

Gel bras, V.Ya., Engineer

SOV-117-58-10-3/35

上於是認識的之間是可能的發展的

TITLE:

An Automatic Milling Cutter Designed on the Base of a Standard Power Head (Fresernyy avtomat na baze standartnoy si-

lovoy golovki)

PERIODICAL:

Mashinostroitel', 1958, Nr 10, pp 3 - 4 (USSR)

ABSTRACT:

Machining of the internal links of a sectional traction chain is done on FM-TO9 copying milling cutters. The operation is difficult and requires an operator of considerable skill and physical strength. In order to improve these conditions and increase the productivity of the operation, an automatic duplex milling cutter on the base of a standard hydraulic power head of type 1U4O41 with magazine feed attachment (Photo 1) has been projected, manufactured and put into operation. Former consecutive milling of the internal surfaces has now been changed over to simultaneous face milling of two milling cutters equipped with crowns of the hard alloy T15K6 at 2,000 revolutions per minute of the spindles and a speed of 600 mm/min. of the feed process. The magazine is calculated for 20 pieces and can be filled while the machine is operating. This makes

Card 1/2

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An Automatic Milling Cutter Designed on the Base of a Standard Power Head

it possible for one operator to operate several machines of this type at a time. A safety valve can stop the machine immediately. The dimensions of the machine are 2,100 x 700 x 500 mm. The machine produces 420 pieces an hour, which is an increase of 3.5 times. The component parts of the machine are shown and described in detail. There are 2 sets of diagrams and 1 photo.

1. Cutting tools--Design 2. Milling machines (Engineering) --- Equipment

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

| GEL'BSHTEYN, A.I. | |
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| | Randibrium between the gas and liquid phases in the system PAO-HAO. A. I. Gel'bishtein and M. I. Tembin. Zhar. Obishchei Khim. 23, 1276-23(1933).—A new method is described for measurement of vapor pressure (v.p.) which uses the liquid whose v.p. is to be detd. as the manometer fluid. The temps, at which the v.p. equals 1 atm. were fluid. Over a range of compns. 29.0-80.0 wt. % P ₂ O ₂ . A dedtd. over a range of compns. 29.0-80.0 wt. % P ₂ O ₃ . A point of inflection on this isobar corresponds to the compd. HaPO ₄ (72.4% P ₂ O ₃). The relation of the v.p. to temp, for HaPO ₄ (72.4% P ₂ O ₃). The relation of the v.p. to temp for range from 1 to 20 atm. For solns, in which the PiO ₄ content is greater than 72.4%, log v.p. is a linear function of the II ₃ O content. |
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Gol'bohteyn, A.I.

USSR/Physical Chemistry - Solutions. Theory of Acids and Bases, B-11

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 488

Gel'bshteyn, A. I., Shcheglova, G. G., and Temkin, M. I. Author:

Institution:

Acidity of Aqueous HCl Solutions and of the System P205-H20 at

Various Temperatures

Original

Zh. neorgan. khimii, 1956, Vol 1, No 2, 282-297 Periodical:

The indicator method was used in determining the dependence of the Abstract:

acidity Ho on the temperature and on the concentration in aqueous solutions of HCl (up to 6.44 M), aqueous solutions of H3PO4 (up to 100%), and in strong phosphoric acids containing up to 83.8 wt percent P205. It was found that in the system P205-H20 the value of Ho passes through a maximum at 79.7 wt percent P205, which corresponds to the composition H4P2O7. A further increase in the P2O5 content of the system leads to a decrease in acidity. Raising the temperature (20-800) increases the acidity of aqueous HCl solutions. The acidity of

Card 1/2

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USSR/Physical Chemistry - Solutions. Theory of Acids and Bases, B-11

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 488

Abstract: the system P205-H20 decreases when the temperature is increased (4-

40°). In the region of strong phosphoric acids and high HCl concentrations, the derivative of the acidity-temperature characteristic is practically independent of the concentration. The values of the standard change in enthalpy Δ HO and entropy Δ SO during the ionization of

the various basic indicators have been calculated.

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

Octobsliteyn, AI.

USSR/Physical Chemistry - Solutions. Theory of Acids and Bases, B-11

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 485

Author: Gel'bshteyn, A. I., Shcheglova, G. G., and Temkin, M. I.

Institution: None

Title: Acidity of the System H₂SO₄-H₂O at Various Temperatures

Periodical: Zh. neorgan. khimii, 1956, Vol 1, No 3, 506-515

Abstract: The acidity of sulfuric acid was studied as a function of the concentration (l_1-100) H_2SO_4) and the temperature (20, l_1 0, 60, and 80°).

It was established that in solutions containing less than 30% H2SO1, by weight, the acidity increases with temperature; in solutions con taining 30-50 wt. percent H2SO4, the acidity is practically independent of the temperature, and in solutions with higher concentrations, the acidity decreases with increasing temperature. An equa-

tion is given for the acidity: $H_2SO_4:H_0 = -1.7h - 1gK_2$ -

lgxH2SO4/xHSOT - lgfH2SO4fB/fHSOTfBH+, where K2 is the equilibrium

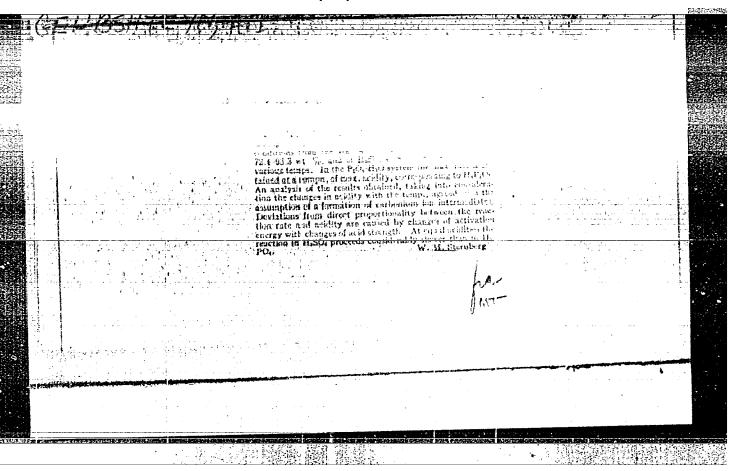
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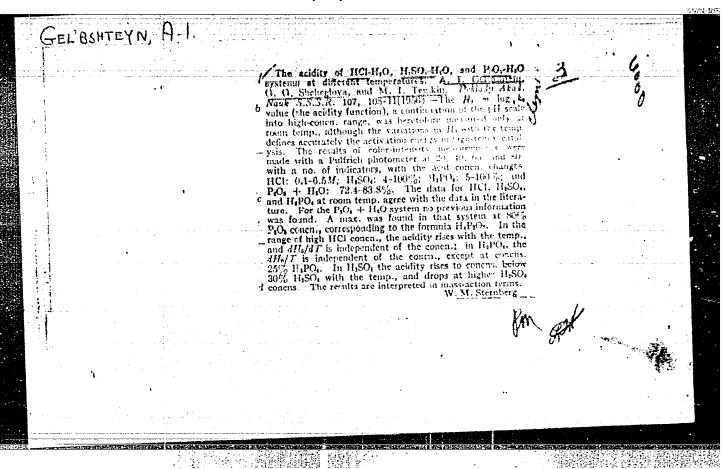
USSR/Physical Chemistry - Solutions. Theory of Acids and Bases, B-11

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 485

Abstract: constant for the reaction $H_2SO_4 + H_2O \rightleftharpoons HSO_4 + H_3O^+$; x_1 is the mole fractions and f_1 , the activity coefficients. This equation is equivalent to the equation introduced by Brand (J. C. D. Brand, J. Chem. Soc., 1950, 997). A theoretical discussion of the determination of the acidity of concentrated H2SO4 solutions is given. It is noted that the effect of the temperature dependence of the acidity on the rate of reactions which are catalyzed by the acids is comparable to the effect of the temperature dependence of the probable activation energy. Hence, the study of the temperature dependence of the acidity will lead to the correct determination of the activation energy during catalysis by strong acids.

Card 2/2





GEL'BSHTEYN, A.I. (Moscow); TEMKIN, M.I. (Moscow)

Kinetics of the chemical interaction between ethylene and propylene with sulfuric acid [with summery in English]. Zhur. fiz. khim, 31 no.12:2697-2705 D '57. (MIRA 11:4)

1.Fiziko-khimicheskiy institut im. L. Ya. Karpova, Moskva. (Ethylene) (Propylene) (Sulfuric acid)

AUTHORS:

Gel'bshteyn, A. I., Zansokhova, A. A.,

507/64-58-5-6/21

Shcheglova, G. G.

TITLE:

The Vapor Phase Alkylation of Benzene With Ethylene With a Phosphorus-Diatomite Catalyst (Parofaznoye alkilirovaniye benzola etilenom na fosforno-diatomitnom katalizatore)

PERIODICAL:

Khimicheskaya promyshlennost', 1958, Nr 5, pp. 284 - 287 (USSR)

ABSTRACT:

This alkylation was carried out in a high-pressure apparatus, a diagram of which is given. In the case where the authors worked with pure ethylene (instead of with an ethylene-nitrogen mixture) it was dissolved in a special mixing bulb in benzene and the composition of the mixture was determined by means of pressure readings. The analysis of the liquid reaction products was carried out according to the melting temperature method suggested by 0.M.Podurovskaya, which had been developed in the below mentioned laboratory for the analysis of benzene-toluene mixtures. A diagram of the apparatus is given. The authors carried out experiments with a 50% ethylene-nitrogen mixture at different ratios to benzene, at 300 and 325° and at 40 atmospheres absolute pressure. It was found that the optimum molar ratio benzene - ethylene is in the vicinity of

Card 1/3

The Vapor Phase Alkylation of Benzene With Ethylene With a Phosphorus-Diatomite Catalyst

507/64-58-5-6/21

10. The experimental results obtained are given in a table, as are those on the effect of the composition of the "Ethylene Fraction" on the alkylation process. From the experimental results obtained it may be seen that at a temperature of 325° a conversion of 85-90% of the ethylene into alkyl products is reached, with almost no side reactions taking place. A drop of the temperature decreases the conversion by 10-15%, so that the temperature mentioned may be regarded as the optimum temperature. The content of ethylbenzene in the reaction products was 10 per cent by weight. There are 3 figures, 2 tables, and 19 references, 5 of which are Soviet.

ASSOCIATION: Fiziko-khimicheskiy institut imeni L.Ya.Karpova (Institute of Physics and Chemistry imeni L.Ya.Karpov)

Card 2/3

The Vapor Phase Alkylation of Benzene With Ethylene SOV/64-58-5-6/21 With a Phosphorus-Diatomite Catalyst

1. Benzenes---Chemical reactions 2. Substitution reactions 3. Ethylene---Chemical reactions 4. Catalysts---Chemical reactions

Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

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76-32-4-21/43

AUTHORS:

Tsybina, Ye. N., Gel'bshteyn, A. I., Arest-Yakubovich, A. A.,

Temkin, M. I.

TITLE:

The Kinetics of the Vapor Phase Hydration of Acetylene in the

Presence of a Carbon-Supported Phosphoric Acid Catalyst (Kinetika parofaznoy gidratatsii atsetilena v prisutstvii

katalizatora - fosfornaya kislota na ugle)

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 4,

pp. 856 - 863 (USSR)

ABSTRACT:

Investigations in the field of acetylene hydration were already carried out by A. P. El'tekov (Reference 1), M. G. Kucherov (Reference 4-6) and others so that the present paper is a continuation of a previous one by A. Ya. Yakubovich, A. A. Danilevich and N. A. Medzykhovskaya (Reference 9). Externally there is apparently present an heterogenous catalytic process; in fact it is an homogenously catalytic process which takes place in liquid dissolved acetylene. From the technique applied can be seen that the authors used the passage system within

Card 1/3

76-32-4-21/43

The Kinetics of the Vapor Phase Hydration of Acetylene in the Presence of a Carbon-Supported Phosphoric Acid Catalyst

a temperature interval of from 261 - 302°C and with using activated charcoal BAU; the catalyst was produced of this according to a method by N. M. Chirkovyy. From the results obtained can among other facts be seen that no retardation of diffusion of the process takes place and that the reaction velocity at a constant phosphoric acid concentration corresponds to an equation of first order. The increase of the pressure of steam leads to a decrease of the reaction velocity which is explained by the dilution of the acid. It was observed that parallel to the hydration an acetylene polymerization and croton condensation of acetaldehyde takes place. A. L. Klebanskiy and V. D. Titov (Reference 18) investigated the reaction mechanism of unsaturated compounds which were catalized by strong acids; they did this by investigating the alkylic acids formed as intermediate products. The hydration velocity of acetylene is proportional to its concentration as well as to the acidity of the medium and is dependent on the activity of water. This is

Card 2/3

The Kinetics of the Vapor Phase Hydration of Acetylene in the Presence of a Carbon-Supported Phosphoric Acid Catalyst 76-32-4-21/43

explained by a monomolecular conversion of the product of proton addition to the acetylene molecule as reaction limit. The products are regarded as x-complexes of acetylene with a proton in the carbonium ion. Concluding from this a reaction scheme is given and the activation energy is calculated taking into account the temperature dependence of the activity of the catalyst. There are 1 figure, 3 tables, and 21 references, 14 of which are Soviet.

ASSOCIATION:

Fiziko-khimicheskiy institut im. L. Ya. Karpova, Moskva (Moscow

Physicochemical Institute imeni L. Ya. Karpov)

SUBMITTED:

December 27, 1956

AVAILABLE:

Library of Congress

1. Acetylene--Hydration 2. Phosphoric acid--Catalytic properties

card 3/3

Taybina, Ye. N , Gelbahteyn, A. I ,

76 32 5-5/41

·AUTHORS:

Temkin, M. I.

TITLE:

The Kinetics of the Vapor Phase Hydration of Acetylene on Zinc Phosphate (Kinetika parofaznoy gidratatsii atsetilena na

fosfate tsinka)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 5, pp. 995-1002

(USSR)

ABSTRACT:

The reaction kinetics were investigated according to the flow circulation method, which made possible an isothermal catalyst layer independent of the conversion degree of the reacting substances, and also made possible a direct measuring of the reaction velocity. The mechanism of the catalytic effect of protonic and aprotonic acids or acid-similar substances, respectively, is assumed according to the terminology by A. I. Shatenshteyn (Ref 5). The experimental technique and the equipment are given, It was observed that the reaction took place in the kinetic range and that it did not depend on the granular size of the catalyst, but that it depended on the conditions of preparation, so that comparisons were made only with catalysts of the same series of production. The catalyst activity de-

Card 1/3

The Kinetics of the Vapor Phase Hydration of Acetylene on 76-32-5-5/47

creased with the prolongation of the working period which made necessary its regeneration after a certain working period. The amount of side reaction products was determined by bromination and served for orientation. As was shown by the results mentioned in form of tables the reaction velocity does not change with the partial pressure of the acetaldehyde, with the reaction kinetics corresponding to that of the catalytic effect of phosphoric acid; this permits to conclude on a similarity of the mechanism of the two catalysts. It is assumed that a corresponding carbonium ion of Zn+2 is formed the structure of which corresponds to that of the compound of mercury chlo ride with acetylene as assumed by A. N. Nesmeyanov and R. Kh. Freydlina (Ref 12) in the reaction of vinyl derivatives, and which is in the present case represented by HC+ = CHZn+ The productions by A. L Klebansiy and V D. Titov (Ref 14) based on the investigation results by A N Nesmeyanov, as well as those by Lyuderi and Tsuffanti (Ref 13) are also mentioned. Concluding the authors state that the formation velocity of acetaldehyde is proportional to the partial pressure of acetylene and independent of the partial pressure of water

Card 2/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

性的特別

The Kinetics of the Vapor Phase Hydration of Acetylene on 76-32-5-5/47 Zing Phosphate

and acetaldehyde, and that the yield of acetylene polymers is

proportional to the ratio $p_{C_2H_2}/p_{H_2O}$.

There are 3 figures, 6 tables, and 15 references. 14 of which

are Soviet.

ASSOCIATION: Fiziko khimicheskiy institut im. L.Ya. Karpova, Moskva

(Moscow Physical-Chemical Institute imeni L.Ya. Karpov)

SUBMITTED: December 28, 1956

1. Acetylenes--Chemical reactions 2. Zinc phosphates--Chemical reactions 3. Chemical reactions--Velocity

4. Acids--Catalytic properties

建物间 语音说

Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

可是政治學的學習的

AUTHORS:

Gel'bshteyn, A. I., Temkin, M. I. 20

20-118-4-32/61

TITLE:

On the Determination of the Reaction Order From the Acidity (Ob opredelenii poryadka reaktsii po kislotnosti)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 118, Nr 4,

pp. 740-743 (USSR)

ABSTRACT:

In the catalysis by concentrated acids the degree of the transition of the substrate B into the protonized form BH is determined by the acidity of the medium, i.e. by the ability to deliver a proton, and also by the alkalinity

of the substrate:

 $C_{BH^+}/C_B = Kh_o$. Thereby h_o denotes the acidity of the medium and K - the constant of the equilibrium of the reaction $B + H^+ \longrightarrow BH^+$. It is possible that the equilibrium is established previous to the limiting stage $B + 2H^+ \longrightarrow BH_2^{2+}$. In that case the constant k of the

velocity must be proportional to h_0^2 . The dependence of the constant k on h_0 is usually represented by the equation

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 $k = const.h_0^n$, where on the exponent n is graphically determined. By this means in the decomposition of benzoylformic-acid in sulfuric acid the value n = 2 was determined and it was concluded that the reaction comprises the combination of two protons. The authors investigated the kinetics of the decomposition of formic acid into carbon monoxide and water in the media H₂SO₄-H₂O (from 80,7 to 98,2 % H_2SO_4) and $P_2O_5-H_2O$ (from 72,4 to 83,3 % P_2O_5 , i.e. in the domain of the so-called strong phosphoric acids). The acidity of the system $P_2O_5-H_2O$ passes through a maximum at a P205-percentage of about 80 % in contrast to the system $H_2SO_A-H_2O$, where the acidity monotonously depends on the composition. The peculiarity of the system P205-H20 makes possible a better determination of the relation between the constant of the reaction velocity and the acidity. The shape of the curve for the system P205-H20 indicates the inapplicability of the equation $k = const. h_0^n$. Then the authors give a formula

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for k and for a proportionality ogefficient, occurring in this formula. Finally $k = F(x)e^{-E(x)/RT}$ is obtained, whereby F(x) is an observed factor and E(x) is the observed activation energy. These terms here are specialized more exactly. A table contains the values of the quantity occurring in these terms for 200C. The - accuracy of the here given formulae is shortly discussed. The finding of n by means of the equation $logF(x) = logB + nlog\beta$ fundamentally is more correct than the determination by the equation k=const.hn, but it imposes considerably higher demands on the experimental data. There are 2 figures, 2 tables, and 4 references, 2 of which are Soviet

ASSOCIATION:

Nauchno-issledovatel skiy fiziko-khimicheskiy institut im. L. Ya. Karpova (Physical-Chemical Scientific Research Institute imeni L. Ya. Karpov)

Card 3/4

On the Determination of the Reaction Order From the Acidity

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PRESENTED:

July 23, 1957, by A. N. Frumkin, Member, Academy of

Sciences USSR

SUBMITTED:

July 16, 1957

AVAILABLE:

Library of Congress

Card 4/4

5(4)
AUTHORS: Apel'baum, L. O., <u>Gel'bshteyn</u>, A. I., SOV/76-33-2-45/45
Kul'kova, N. V., Morozov, N. M.

TITLE: Mikhail Isaakovich Temkin (Mikhail Isaakovich Temkin).
(On His 50th Birthday) (K 50-letiyu sc dnya rozhdeniya)

PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 2, pp 507-508

(USSR)

ABSTRACT: Professor M. I. Temkin dedicated more than 25 years of his scientific activity to the theoretical problems of physical chemistry. He first set forth the theory of the kinetic catalytic reactions on heterogeneous surfaces, which is based

on the logarithmic adsorption isothermal lines (Temkin isothermal lines). With this theory he and his collaborators were able to define kinetics and the mechanism of such important processes in chemical technology as the ammonia synthesis, the production of water gas, the gasification of coal, and others. For his investigations in the field of the linear relationship between the activation energy and the heat effects of heterogeneous catalytic processes and for his work on the

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processes of chemisorpticn Temkin received the premiya im. Card 1/2 A. N. Bakha (Prize imeni A. N. Bakh) in 1957. Temkin founded

Mikhail Isaakovich Temkin. (On His 50th Birthday) SOV/76-33-2-45/45

the concept of "adsorption of high intensity" and explained the catalytic oxidation of ethanol as an example of it. Temkin was the first to obtain a general, theoretical expression for the absolute rate of reaction on surfaces of solid bodies, which is of fundamental importance in the theory of catalysis. M. I. Temkin also showed that the activation energy of electrochemical processes can be determined theoretically and experimentally, and without difficulty, in relation to the absolute potential. Temkin's ion theory of melted salts and metallurgical slags is well-known in his own country and in foreign countries. His investigations in the field of thermoelectric phenomena in electrolyte solutions and his concept of "ions agitated by entropy" have been confirmed in the papers by English authors. Several papers of M. I. Temkin are concerned with the thermodynamic properties of real gas mixtures. From 1939 to 1949 Temkin was Editor of the Zhurnal fizicheskoy khimii (Periodical of Physical Chemistry). He was awarded the Order of the Red Banner of Work and other Orders of Honor. There is 1 figure.

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5(4)

AUTHORS: Bakshi, Yu. M., Gel'bshteyn, A. I.,

SOV/20-126-2-24/64

Temkin, M. I.

TITLE:

The Equilibrium of the Synthesis of Ethyl Alcohol (Ravnovesiye

sinteza etilovogo spirta)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 2, pp 314-317 (USSR)

ABSTRACT:

The degrees of transformation attainable in the hydration of ethylene in the gaseous phase depend on the equilibrium

C2H4(gas)+H2O(gas)=C2H5OH(gas). The gases participating in this

equilibrium must never be considered to be perfect in the case of the industrial realization of this reaction. For this and other reasons the authors carried out an experimental investigation of the above-mentioned equilibrium, and the results obtained by these investigations are discussed in the present paper. The investigations were carried out in a proton reactor made of stainless steel. The catalyst in this case was silica-gel (-40% H_TPO4 of the weight of

the catalyst). Carrying out these experiments is described. The equilibrium was attained from two sides, and results were found to be in practical agreement. The experimental results are shown by a rather voluminous table. The velocities referred to the volume

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The Equilibrium of the Synthesis of Ethyl Alcohol

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were calculated as the ratio between the ethylene yields per hour (0°,1 atm) and the volume of the catalyzer layer. The $\frac{P_{C_2H_5OH}}{P_{C_2H_4}OH}$ average values of $K_P = \frac{P_{C_2H_5OH}}{P_{C_2H_4}OH}$ determined by means of experiments carried out with mixtures of alcohol and water are also shown by a table. In this connection it holds that $P_{C_2H_5OH} = P_{C_2H_5OH} =$

quantities $B_{ij} = B_{ji}$ are functions of T. For the "activity coefficient" $I_i = \frac{f_i}{N_i P} \text{ it holds that } \ln I_i = \frac{2B_i - B}{RT} P \text{ with } B_i = \frac{B_i}{3} i_j N_j. \text{ With}$

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 $\ln K_{\mathbf{J}^{\bullet}} \sum_{i} Y_{i} \ln_{\mathbf{J}^{\bullet}}$ (where Y_{i} denote the stoichiometric coefficients)

there follows $\ln K_T = \frac{2\sum_i V_{iB_i} - B\sum_i V_{i}}{RT}$ P. The quantity $\frac{2\sum_i V_{iB_i} - E\sum_i V_{i}}{RT}$ is a function of the state and of temperature, and in the case of T being given, depends only on the ratio $\frac{h_{H_2O}}{E_{C_2H_1}}$. $\ln K_P$ must

depend linearly on P. The calculations carried out in accordance with the methods discussed in the present paper show satisfactory agreement with the experiment, especially at high temperatures. There are 2 figures, 2 tables, and 23 references, 8 of which are Soviet.

ASSOCIATION:

Nauchno-issledovatel skiy Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-Chemical Scientific Research Institute imeni L. Ya. Karpov)

PRESENTED:

January 26, 1959 by S. S. Medvedev, Academician

SURMITTED: Card 3/3

January 24, 1959

VARSHAVSKIY, Ya.M., doktor khim.nauk, red.; GKL'BSHTKYN, A.I., kand. khim.nauk [translator]; SHUB, D.M., kand.khim.nauk [translator]; SHEGLOV, O.F., kand.khim.nauk [translator]; ARNOL'DOV, V.V., red.; IOVLKVA, N.A., tekhn.red.

[Catalytic, photochemical, and electrolytic reactions] Kataliticheskie, fotokhimicheskie i elektroliticheskie reaktsii. Moskva, Isd-vo inostr.lit-ry, 1960. 436 p. Translated from the English. (MIRA 13:11)

(Chemical reactions)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

S/020/60/132/01/41/064 B004/B007

AUTHORS: Bakshi, Yu. M., Gel'behteyn, A. I., Temkin, M. I.

TITLE: Additional Data on the Equilibrium of the Synthesis of Ethyl Alcohol

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 1, pp. 157-159

TEXT: In Ref. 1 the authors published the data on the equilibrium of the reaction (1) C_2H_4 gas $^+H_2O_{gas} = C_2H_5OH_{gas}$ at pressures of up to 81 atm. They found the linear dependence of log K_p on total pressure, extrapolated log K_p for P=0, and obtained equation (2): $\log K_p = 2093/T - 6.304$. In the present paper they report on the dependence of the logarithm of the coefficient K_p on P. $(K_p = \gamma_{C_2H_5}OH/\gamma_{C_2H_4}/H_2O)$; γ - activity coefficient). The data is given in table 1. Further, equation (5) was derived from the dependence $K_p = K_p/K_p$. Table 2 compares the values of K_p calculated from this equation with the experimentally determined values. The degree of equilibrium α of the conversion of ethylene into alcohol, Card 1/2

Additional Data on the Equilibrium of the Synthesis of Ethyl Alcohol

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determined according to equation (6) with $N_{\rm H_2O}/N_{\rm C_2H_4} = 1$ is given in table 3,

and in table 4 α is given for 290° for a different ratio between water and ethylene. Calculation of the heat effect of reaction (1) gives $\Delta H = -5263$ cal at 300° and 80 atm, whereas $\Delta H^{\circ} = -9370$ cal. This dependence of ΔH on P must be taken into account for technical calculations. There are 4 tables and 1 Soviet reference.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Institute of Physical Chemistry imeni L. Ya. Karpov)

PRESENTED: December 30, 1959, by S. S. Medwedev, Academician

SUBMITTED: December 30, 1959

Card 2/2

s/020/60/132/02/39/067 B004/B007

5.3200 AUTHORS:

Gel'bshteyn, A. I., Bakshi, Yu. M., Temkin, M. I.

TITLE:

The Kinetics of the Hydration of Ethylene in the Vapor Phase on a Phosphoric Acid Catalyst

Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 2, pp. 384-387 PERIODICAL:

The authors investigated the industrially utilized reaction C2H4 (gas)

(1). As catalyst, phosphoric acid applied to silica gel was used. The authors proceeded from the assumption that the reaction develops in a way similar to the previously (Ref. 1) investigated hydration of C2H2, and that only its reversibility must be taken into account. Scheme (2) is written down for reaction (1), and it is found that the transformation of the

m-complex H2CTCH2 into the carbonium ion H3C-CTH2 is the stage that limits the reaction rate. From scheme (2) equation (3) is derived for the direct reaction,

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The Kinetics of the Hydration of Ethylene in the Vapor Phase on a Phosphoric Acid Catalyst

after which equation (4) is obtained with some simplification: $v_1 = k_1 h_0 P_{C_2 H_4}$ (v_1 = rate of direct reaction, k_1 = reaction constant, h_0 = acidity of $H_3 PO_4$, $P_{C_2 H_4}$ = partial ethylene pressure). In a similar manner, equation (5) is

obtained for the rate of reversible reduction, equation (7) is derived for the obtained for the rate of reversible reduction, equation (7) is derived for the total reaction, and finally equation (9) is written down for the constant k of the total reaction. Table 1 gives the experimental data for absolute pressures P the total reaction. Table 1 gives the experimental data for absolute pressures P the total reaction and a reaction temperature of 290°C. The values of k between 36 and 81 atmos and a reaction temperature of 290°C. The values of k between 36 and 81 atmos and a reaction temperature of 290°C. The values of k between 36 and 81 atmos and a reaction temperature of 290°C. The values of k between 36 and 81 atmos and a reaction temperature of 290°C. The values of k between 36 and 81 atmos and a reaction temperature of 290°C. The values of k between 36 and 81 atmos and a reaction temperature of 290°C. The values of k between 36 and 81 atmos and a reaction temperature of 290°C. The values of k between 36 and 81 atmos and a reaction temperature of 290°C. The values of k between 36 and 81 atmos and a reaction temperature of 290°C.

reaction with respect to water, which does not participate in the limiting stage of the reaction. For technical purposes the reaction rate is represented as an explicit function of $P_{\rm H_2O}$. For the reaction constant k' one finds:

 $k' = kP_{H_2}^{1/2}$ (15). The values of k' given in Table 1 are approximatively constant.

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The Kinetics of the Hydration of Ethylene in the Vapor Phase on a Phosphoric Acid Catalyst

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For the temperatures of 270, 290, 310, and 330°C as well as $P_{\rm H_2O}$ = 30 atmos,

the average values of k_1 and k' are given in Table 2. As in the adsorption of C_2H_4 and C_3H_6 in H_2SO_4 (Ref. 9), and in the hydration of C_2H_2 (Ref. 1) also in this case the transformation of the w-complex into the carbonium ion is the limiting stage. There are 2 tables and 9 references, 7 of which are Soviet.

ASSOCIATION: Fizichesko-khimicheskiy institut im. L. Ya. Karpova (Institute of Physical Chemistry imeni L. Ya. Karpov)

X.

PRESENTED: December 30, 1959, by V. A. Kargin, Academician

SUBMITTED: December 21, 1959

Card 3/3

GEL'ESHTEYN, A.I.; SILING, M.I.; SERGEYEVA, G.A., SHCHEGLOVA, G.G.

3.3

Vapor phase catalytic conversions of acetylene. Part 1: Adsorption of acetylene and hydrogen chloride on catalysts for vapor phase hydrochlorination of acetylene. Kin.i kat. 4 no.1:149-155 Ja-F 163.

(MIRA 16:3)

1. Fisikopkhistiahaskiy fakul'tet imeni L.Ya.Karpova.
(Acetylene) (Hydrochloric acid) (Adsorption)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

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GEL'BSHTEYN, A.I., SILING, M.I.

Vapor-phase catalytic conversions of acetylene. Part 2: Thermodynamic characteristics of the complex-forming reactions of mercury, bismuth, cadmium, and zinc chlorides with acetylene and hydrogen chloride on a carbon surface.

Kin.i kat. 4 no.2:30 306 Mr-Ap 63. (MIRA 16:5)

1. Fiziko-khimicheskiy institut imeni Karpova.
(Acetylene compounds) (Hydrochloric acid) (Catalysts)

GEL'BSHTEYN, A.I.; SHCHEGLOVA, G.G.; KHOMENKO, A.A.

Vapor-phase catalytic conversions of acetylene. Part 3:
Kinetics and the mechanism of vapor-phase hydrochlorination
of acetylene over catalysts such as chlorides of Hg (II),
Cd, Zn, Bi. Kin. i kat. 4 no.4:625-634 Jl-Ag 163. (MHA 16:11)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610018-5"

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GEL BSHTEMI, A.I.; AMRAPETOVA, R.P.; SHCHEGLOVA, G.G.; TEMKIN, M.I. Acidity function of the system P₂0₅ - H₂0 Zhur, neorg. khim. 9 no.6:1502-1505 Je *63 (MIRA 17:8) 1. Fiziko-khimicheskiy institut imeni Karpova.

STROYEVA, S.S.; RUDNITSKIY, L.A.; FOMIN, C.E.; EULIFOVA, N.V.; GELIBSHTEYN, A.I.

Surface properties of a catalyst for oxidizing ammonolysis of propylene. Kin. i kat. 5 no.2#355.356 Mr-Ap *64. (MIRA 17:8)

1. Fiziko-khimicheskiy institut imeni Karpova.

Vapor-phase catalytic conversions of acetylene, fort 5: Certain regularities in the catalysis by salts of vapor-phase reactions of addition to acetylene, Kin. i lat. 5 no.3:460-468; 19-48; 164.

(MIRA 17:11)

1. Fiziko-khimicheskiy institut imeni Karpova.