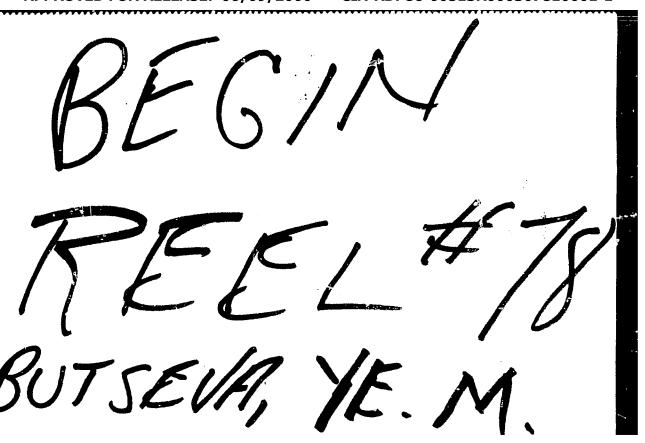
"APPROVED FOR RELEASE: 06/09/2000 CIA

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BUTSEVA, Ye.M.

Growth of staphylococcal diseases and the resistance of their causative agents to some antibiotics. Zhur.mikrobiol., epid. i immun. 32 no.10:137 0 '61. (MIRA 14:10)

1. Iz lipetskoy sanitarno-epidemiologicheskoy stantsii. (STAPHYLOCOCCAL DISEASE) (ANTIBIOTICS)

BUTSEVICH, L. A.

Butsevich, L. A. "Certain Virus Characteristics of Chlorosis in the Top Leaves of Makhorka (Aztec Tobacco)," <u>Tabak</u>, no. 4, 1952 pp. 55-57. 69.8 Tll2

So: SIRA SI - 90-53, 15 Dec. 1953

BUTSEVICH, L. A.,

"Infectious Chlorosis of the Upper Parts of the Makhorka Plant." (Dissertation for Degree of Candidate of Biological Sciences) Moscow Order of Lenin State U imeni M. V. Lomonsov, Moscow, 1955

SO: M-1036 28 Mar 56

VORONKEVICH, I.V.; AFANAS'YEVA, Z.P.; BUTSEVICH, L.A.; LIPILINA, N.I.

Effect of fertilizer on soil population of actinomycetes antagonistic to phytopathogenic bacteria [with summary in English].

Mikrobiologiia 27 no.6:720-723 N-D 158. (MIRA 12:1)

1. Moskovskaya stantsiya Vsesoyuznogo nauchno-issledovatel'skogo instituta zashchity rasteniy.

(ACTINOMYCES.

in soil, eff. of fertilizers on strains antag. to phytopathogens (Rus))

(FERTILIZERS, effects, on Actinomyces antagonistic to phytopathogens in soil (Rus))

(SOIL, microbiology, Actinomyces, eff. of fertilizers on strains antagonistic to phytopathogens (Rus))

BUTSIK, M.G

GERTSRIKEN, S.D.: BUTSIK, M.G.: AL BERT, M.D.

Investigating mercury diffusion coefficients in mercury-cadmium alleys in the 90-180°C temperature range. Nauk. zap. Kiev. un. 9 no.2:49-52 °50. (MERA 9:12)

(Cadmium-mercury alloys) (Diffusion)

YUSHCHENKO, N.G.; BUTSIK, M.G.

Aeroion counter and generator. Uch.zap. KRROI 7:157-163'61. (MIRA 16:8)

(AIR. IONIZED—EQUIPMENT AND SUPPLIES)

BUTSIK, M.G.; OVOSHCHNIKOV, M.S.

An electronic apparatus, the Logetron, for copying roentgenograms to improve image distinctness. Vestn. rentgen. i radiol. 38 no.4:59-63 Jl-Ag'63 (MIRA 17:2)

1. Iz fiziko-tekhmicheskogo otdela (rukovoditel' - laureat Gosudarstvermoy premii M.S.Ovoshchmikov) Kiyevskogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta (dir. - prof. I.T. Shevchenko).

BUTSIK, YUV.

AUTHOR:

Butsik, Yu.V.

132-12-11/12

TITLE:

Concerning G. M. Kostamanov's Article "The Errors in Determin-

ing the Thickness of Coal Bed in a Drill Hole"

(O stat'ye G.M. Kostamanova "O pogreshnosti pri opredelenii

moshchnosti plasta uglya po skvazhine")

PERIODICAL: Razvedka i okhrana nedr, 1957, # 12, p 60 (USSR)

A. STRACT:

The author questions the correctness of the formula proposed by G.M. Kostamanov in the periodical "Razvedka i okhrana nedr", # 8, 1956. The author points out that Kostamanov did not take the coefficient k into consideration, without which the proposed correction of the magnitude of the coal layer according to the

axis of the drill hole can not be carried out.

The article contains one diagram.

ASSOCIATION: Voroshilovarad Coal-Geology Trust (Trest Voroshilovgraduglegeologiya)

AVAILABLE:

Library of Congress

Card 1/1

EPSHTEYN, Yo. F.; KORCHAGIN, L.V.; BUTSIK, YU.V.

Silicate and silicate-humic clayless solutions for flushing boreholes during prespecting. Izv. DGI 30 no.1:85-90 '57. (MIRA 11:3)

1. Dnepropetrovskiy gornyy institut (for Epshteyn, Korchagin). 2. Trest "Voroshilovgraduglegaologiya" (for Butsik)
(Boring) (Brospecting)

BUTSIK, Yu.V.; TEMNIKOV, V.F.

Certain problems in the prospecting of deep horizons in the Donets Basin. Razved. i okh. nedr. 30 no.5:17-22 My 164. (MIRA 17:10)

1. Trest "Artemgeologiya."

BUTSIS, Ya. Ya. In Latvian

BUTSIS, Ya. Ya. -- "Meat Yield of Latvian Brown Cattle and Possibilities of Increasing It." Latvian Agricultural Academy, 1952. In Latvian (Dissertation for the Degree of Candidate of Agricultural Sciences)

SO: Izvestiya Ak, Nauk Latvivskoy, SSR. No. 9, Sept., 1955

STUIENTSOV, N.N.; BUTSISHKO, Ye.E.; GORBUNDVA, V., redakter; LUKASHEVICH, V., tekhnicheskiy redakter.

[General science insuruction in schools; from the work practice of teachers] Politekhnicheskee obuchenie v shkole; iz opyta raboty uchitelei. Saratov, Saratovskee kn-ve, 1955. 134 p. (MIRA 9:6) (Science-Study and teaching)

BUTKIY , A.I., inzh; GAYDUKOV, E.E., inzh.

Using short-delay blasting in limestone quarries. Shor. trud. NIIZHelezobetona no.8:79-89 63 (MIRA 18:1)

BUTSIY, A.I., inzh.; GAYDUKOV, E.E., inzh.

Effective means of lowering the oversite yield in limestone quarries. Stroi. mat. 9 no.10:14-17 0 63. (MIRA 16:11)

BUTS'KA, L.K., kand.med.nauk

Use of general ultraviolet irradiation on infants from the powerful PRK 7 mercury-quartz lamp. Ped., akush. i gin. 22 no.5:39-31 '60. (MIRA 15:6)

1. Otdel profilaktiki i terapii detskikh bolezney (rukovoditel; - kand.med.nauk O.S. Mishchenko) Ukrainskogo nauchno-issledovatel skiy institut okhrany materinstva i detstva im. Geroya Sovetskogo Soyuza prof. P.M. Buyka (direktor - zasluzhennyv vrach USSR M.D. Burova).

(PEDIATRIC RADIOLOGY)
(ULTRAVIOLET RAYS—THERAPEUTIC USE)

BUTSKAYA, L. E.

"The Functional Condition of the Cardiovascular System During Acute Digestive and Mutritional Disorders of Young Children." Cand Med Sci, Kiev Order of Labor Red Banner Medical Inst imeni A. A. Bogomolets, Kiev, 1954. (KL, No 12, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

Butskaya, T. K., Kostenko, O. R., Nishchaya, S. YA., Filosofova, T. G., Sherhter, A. B., Milovanova, L. P., and Berznitskaya, S. A.

Study of the effectiveness of active immunization in whoopin caugh.

Materialy nauchnykh knoferenykh, Kiev, 1999. 200pp (Kievskiy Nauchno-issledovatel'skiy Institut Epidemiologii i Mikrobiologii)

STULIY, L.A.; SAFRONOVA, O.N.; BUTS'KA, L.K., kand. med. nauk; KRIVOBOKOV, S.A. [Kryvobokov]; VOLOSHINOV, B.M. [Voloshynov, B.M.], dotsent BICHKOVSKIY, V.N. [Byshkovs'kyi, V.N.] dotsent; POKOTILOVA, V.Yu. [Pokotylova, V. IU]; KOLESNIKOV, G.F. [Kolesnykov, H.F.]; ZLATKIS, L.S.; SAVOST'YANOVA, S.I.; BRIN, D.D. [Bryn, D.D.]; MATVEYENKO, Ye.A. [Matviienko, IE.A.]; BRONZ, L.M.; YEPSHTEYN, L.G. [Epshtein, L.H.], kand. med. nauk; SHAKHNOVICH, L.A. [Shakhnovych, L.A.]

Annotations and authors: abstracts. Pediat. akush. ginek. no.3: 31-34 '63 (MIRA 17:1)

1. Khar'kovskiy nauchno-issledovatel'skiy institut okhrany materinstva i detstva (for Stuliy). 2. Kafedra detskikh bolezney Odesskogo meditsinskogo instituta (for Safronova). 3. Ukrainskiy institut okhrany materinstva i detstva (for Buts'ka).

4. Detskiy sanatoriy dlya rekonvalestsentov ot tuberkuleznogo meningita, Kiyev, Pushcha-Voditsa (for Krivobokov). 5. Detskaya klinika Ivano-Frankovskogo meditsinskogo instituta (for Voloshinov). 6. Kafedra detskikh infektsionnykh bolezney Krymskogo meditsinskogo instituta (for Bichkovskiy, Pokotilova). 7. Institut infektsionnykh bolezney Kiyev (for Kolesnikov). 8. Khar'-kovskiy oblastnoy detskiy dom No.l (for Zlatkis, Savost'yanova, Brin, Matveyenko). 9. Kafedra pediatrii Kiyevskogo medinstituta (for Yepshteyn). 11. 2-ya detskaya 'ol'nitsa Shevchenkovskogo rayona g. Kiyeva (for Shakhnovich).

BUTSKAYA, N. A.

Parasites - Fish

Parasitic fauna of Black Sea commercial fish in the estuarine course of the Danube. Trudy Len. ob-va. est. 71, No. 4, 1952.

BUTSKAYA, N.A.

Processes of the formation of ovocytes in amphibians in connection with criticism of the germ theory. Vest. Len. un. 9 no.4:77-89
Ap '54.

(Amphibia) (Ovum)

13012KAYA N.A

USER/ Biology - Ichthylogy

Pub. 22 - 53/60 Card 1/1

2 Butskaya, N. A. Authora

The sperm functions of fish with different spawning types Title

Dok. AN SSSR 100/4. 809-812. Feb 1, 1955 Periodical

Ichthyological data are presented regarding the sperm functions of toartada fish with different spawning characteristics. Eight USSR references

(1927-1951). Diagram.

Institution : Ichthyological Institute, Laboratory of Pisciculture, Leningrad

Presented by: Academician E. N. Pavlovskiy, November 5, 1954

BUTSKAYA, N.A.

Follicular epithelium of testicles and specific features of its function as related to the type of spawning (exemplified in perches). Zool.zhur. 38 no.12:1844-1849 D 159. (MIRA 13:5)

1. Laboratoriya osnov rybovodstva Rosglavgosrybvoda, Leningrad. (Testicle) (Epithelium) (Perch)

SAKUN, Oliga Fedorovna; BUTSKAYA, Nataliya Anatoliyevna; KOSOVA, K.D., red.

[Determination of the stage of maturity and the study of sex cycles in fishes] Opredelenie stadii zrelosti i izuchenie polovykh tsiklov ryb. Moskva, TSentr. laboratoriia po vosproizvodstvu rybnykh zapasov, 1963. 34 p.

(MIRA 17:9)

BUTSKAYA, N.A.

Cytochemical study of the testes in fishes. Report No.1: Nucleic acids, proteins and polysaccharides. Arkh. anat. gist. i embr. 48 no.4:17-23 Ap '65. (MIRA 18:6)

1. Kafedra anatomii i gistologii (zav -- chlen-korvespondent AMN SSSR prof. P.V. Makarov) Leningradskogo gosudarstvennogo ordena Lenina universiteta imeni Zhdanova.

BUTSKAYA, V.D.

USSR Microbiology. Antibiosis and Symbiosis. Intibiotics:

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 3550

Author: Nikitin, V.N.; Butskaia, V.D.; Vorobeva, T.M.;

Ermakov, P.P.; Kovtun, N.E.

Title : The Influence of Acidophil Milk (Acidophilin)

and Streptomycin on the Growth of Laboratory

Animals

Orig Pub: Uch. zap. Kharkovskogo un-ta, 1956, 68, 275-279

Abstract: In 2 series of experiments with mature white rats

(55 animals) and 4 series of experiments with white rats at the age of 1 month (45 animals), an increase in the weight of the body was noted when there was added to a rich ration 10 milliliters of acidophilin and 20 units of streptomycin

Card 1/2

USSR Microbiology. Antibiosis and Symbiosis. Antibiotics.

F-2

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 35582

for every gram of body weight. The greatest effect was obtained in the younger rats with the addition of streptomycin.

Card 2/2

USSR/Soil Science. Soil Genesis and Geography

J-2

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 91365

Author : Butskev N.A.

Inst

Title : The Soils of Zeravshansk basin

Orig Pub: Materialy po proizvod. silam Uzbekistana, 1957, vyp. 9,

145-155

Abstract : The soils of the Zeravshansk basin of Uzbekistun are developed

in conditions of landscape varying from high-nountain

subalpine to pronounced desert termain. Five soil districts were divided: (1) the hight brown soils of high-mountain headow-steppes and the brown (turf-burozen) soils of the brushwood steppes and the juniper rare-farest zone of the mid-mountains; (2) the lark, typical and light sicrozens (low mountains, foothills and mountain-foot plains); (3) irrigated dark, typical and light sicrozens, irrigated and non-irrigated meadow and marsh-meadow and marshy soils of

Card : 1/2

10

S/153/60/003/003/021/036/XX B016/B058

AUTHORS:

Butskus, P. F., Denis, G. I., Ratskene, A. I.

TITLE:

Cyancethylation of Some Amino Acids and Proteins

PERIODICAL:

Izvestiya vyashikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol. 3. No. 3.

pp. 469 - 475

TEXT: The authors report on the cyanoethylation of amine acids and proteins by means of acrylonitrile (AN) and β -obloro prepionitrile (CPN). The substances used were: β -amine ethanesulfonic acid (taurine), δ -aminovaleric acid and ξ -aminocaproic acid. Products of the Nomeon and N,Nodicyano ethylation were obtained thereby; γ -aminobutyric acid was treated with CPN alone. The following substances were also cyanoethylated with AN and CPN: gramicidin C, peptone and proteins (insulin, casein, blood albumin, gelatin, animal gluten, edestin, pea globulin, papsin and nuclein). Peptone and proteins were cyanoethylated in the aqueous alkaline medium, gramicidin C, however, by means of AN in alcoholic solution. All substances treated are symmethylated at the amine

Card 1/3

Cyancethylation of Some Amino Acids and $\frac{S/153/60/003/003/021/036/XX}{B016/B058}$

group (see scheme). The authors presume that under the given conditions proteins may also be vanoethylated at the sulfhydryl- or hydroxyl group, while the dir protection takes place at the amine groups. They don't think it im, ssible that the two substances AN and CPN may to a certain degree read with other groups of the protein molecule. The authors proved that the initial substances (Table 2) showed an intensive minhydrin restriction with blue-violet coloring and contained amino nitrogen. Neither that was the case after symmethylation. In the solid state, the products of the cyano-ethylation of most proteins, paptone and gramicidin C form an almost white powder. The authors presume that the cyanchethylation of amino acids, proteins and peptone by means of GPN proceeds over the phase of AN formation (Ref.2), When heating the products of the N-monc- and N,N-dicyanc-ethylation of amino acids with 10% aqueous ammonia solution, these products are decyang-ethylated and produce the initial amino acids. The Nocyano ethylated amino acids are also decyano-ethylated through the influence of anilane, but besides, the product of trans cyars ethylation: \$\beta\$ phenylaminepropionitrile:

Card 2/3

Cyanoethylation of Some Amino Acids and 5/153/60/003/003/021/036/XX 3016/3058 Proteins $\texttt{HOOC}(\texttt{CH}_2)_n \texttt{NH-CH}_2 \texttt{CH}_2 \texttt{CN} + \texttt{C}_6 \texttt{H}_5 \texttt{NH}_2 \xrightarrow{---} \texttt{HOCC}(\texttt{CH}_2)_n \texttt{NH}_2 + \texttt{C}_6 \texttt{H}_5 \texttt{NH-CH}_2 \texttt{CH}_2 \texttt{CN} \texttt{is}$ formed in this case. This compound also develops at the influence of aniline on cyanoethylated proteins and peptones (Ref.11). There are 2 tables and 16 references: 10 Soviet, 3 US, 1 German, and 2 British. ASSOCIATION: Vil'nyusskiy gosudarstvennyy universitet; Kafedra organicheskoy khimii (Vil'nyus State University; Chair of Organic Chemistry) SUBMITTED: September 11, 1958' $CH_{\bullet} = CHCN$ HOOC(CH₂)_nNH₂ THOOC(CH₂)_nNH—CH₂CH₂CN ---CH2 == CHCN HOOC(CH₂)_nN(CH₂CH₂CN)_n Protein $CH_{i} = CHCN$ Protein CI - CH, CH, CN белок - NH - CH,CH,CN Card 3/3 Protein

BUTSKUS, P.F. [Buckus, P.]; RAGUOTENE, N.V. [Raguotiene, N.]; DENIS, G.I.; BUTSKENE, A.I. [Butskiene, A.]

Decyanoethylation and recyanoethylation of products of N-cyanoethylation of amino acids, their derivatives, peptides, diketo-piperazines, and proteins. Zhur.cb.khim. 32 no.3:738-741 Mr 162. (MIRA 15:3)

1. Vil'nyusskiy gosudarstvennyy universitet.
(Amino acids) (Cyanoethylation)

BUTSKUS, P.F. [Buckus, P.]; STONITE, R.Yu.; DENIS, G.I.; BUTSKENE, A.I. [Buckene, A.]

Cyanosthylation of p-tuluidine by p-substituted propionitriles.

Zhur.ob.khim. 32 no.3:820-823 Mr '62. (MIRA 15:3)

1. Vil'nyusskiy gosudarstvennyy universitet.
(Toluidine) (Propionitrile)

<u>1</u>	52606-65 EWA(j)/EWT(m)/EPF(e)/EWP(j)/EW	A(b)-2/EWA(c) Pc-4/Pr-	h RM
i	ACCESSION NR: AP5015859	UR/0063/64/009/006/0	699/0200
\$	AUTHOR: Vitorskiy, A. P.; Butskene, A. I.;	Butskus, P. F.	į
	TTTLE: Relationship of the chemical structuand their toxicological properties	re of beta-substituted pro	pionitriled
-	SOURCE: Vsesoyuznoye khimicheskoye obshches 700	tvo. Zhurnal, v. 9, no. 6,	1964, 699-
	TOPIC TAGS: toxicology, organic nitrile com	pound, biochemistry	
5 :	Abstract: The toxicology of various beta summarized. These derivatives are general plonitrile is more toxic than its beta-su	lly relatively nontoxic.	les is
	exception of beta-halopromismitrilea). To tuted proposationies is man lesses in the with a background of all new teams special.	The texts effect of colors of form of general of the colors of the color	en gra
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	propionitriles. The toxicity of 0- and N creases with increasing length of the ali	-cynnocthylated compound:	4 1 n=

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ACCESSION NR: AP5015859

of increase in toxicity drops in compounds with high-molecular weights. The toxicity increases upon transition from beta-propoxy- to betaallyloxypropionitrile; beta-ethoxypropionitrile is less toxic than beta-(ethylmercapto)-propionitrile. In the series of N-monocyanoethylated amines, the toxicity increases upon formation of their method, des and upon trubaction from secondary to tertiary amines. There is an introde in the toxicity from mono- to dicyanoethylated compounds only among the products of N-cyanoethylation of amines and amine acids. The introduction of the corpoxyl group into the molecules of beta-alkylamino- and beta-allylaminopropicuitriles lends to a sharp reduction of the toxicity No consistent pattern was obtained for bota-substituted propionitriles as compared with beta-substituted butyronitriles. Propionitrile is 18 times there as acetonitrile and twice as toxic as isopropagationie. The antidotes and antigonists generally used for cyanides and CN lons (sodium nitrite and sodium thicsulfate) do not exert a protective action with respect to beta-substituted propionitriles. The authors Lypothesize that the biological activity of beta-substituted propionitriles may be related to the possibility of the process of transcyanosthylation, since the bota-substituted propionitriles in which the beta-cyanoethyl group is labile are the most toxic.

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BUTSKUS, P.F. [Buckus, P.]; BUTSKENE, A.I. [Buckiene, A.]

Reaction of a -amino acids with acrylamide. Zhur. ob. khim. 34 no. 5:1407-1409 My '64. (MIRA 17:7)

1. Vil'nyusskiy gosudarstvennyy universitet.

BUTSKUS, P.F. [Buckus, P.]; RAGUOTENE, N.V. [Raguotiene, N.]; BUTSKENE, A.I. [Buckiene, A.]

Alkylation of 4-methyl-2-aminopyridine. Zhur. ob. khim. 34 no.11: 3847-3848 N '64 (MIRA 18:1)

l. Vilinyusskiy gosudarstvennyy umiversitet i Vilinyusskiy gosudarstvennyy pedagogicheskiy institut.

BUTSKUS, P.F. [Buckus, P.]; DENIS, G.I.; BUTSKENE, A.I. [Buckiene, A.]

Cyanoethy ation of aromatic amines with \$\beta\$-chloropropionitrile. Zhur. ob. khim. 34 no.12:4119 D '64 (MIRA 18:1)

1. Vil'nyusskiy gosudarstvennyy universitet i Vil'nyusskiy gosudarstvennyy pedagogicheskiy institut.

BITSKUS, P.F. [Buckus, P.]; BUTSKENE, A.T. [Buckiene, A.1

Reaction of B-alamine with acrylamide, allyl cyanide, and crotonomitrile. Zhur. VKHO 10 no. 62706-707 165 (MIRA 1921)

1. Vil'nyusskiy gosudarstvennyy pedagogichaskiy institut i Vil'nyusskiy gosudarstvennyy universitet. Submitted May 6, 1965.

FUTSKIY, A.L.; DVERIF, V.P.; PANKOV, F.A.

Jahnutating some parameters of flet i performance of jet blis. Neft. 5 yap.pr.m. no.ls20.44 Ja-Mr. 165. (MIRA 18:8)

BUTSKIY, A.L.; DVERIY, V.P.; PANKOV, K.A.; PUZENKO, N.N.

Jet bits as a potential for increasing the footage of cil and gas wells in the Dnieper-Donets Lowland. Neft. i gaz. proc. no.4:18-19 0-D '64 (MIRA 18:2)

KOGAN, Liber Ayzikovich; kand. tekhn. neuk; "GOKHBON, Yevgeniy Naumovich;
VEKSLER, Vladimir, Merkovich; KHOTIN, Boris Hikhaylovich;
Prinimali uchastiye: PETROVA, T.I., ANAN' IEVA, S.A.; TAL', K.K.;
EUTSKIY, A.M.; LOBOV, A.A. BOBROVA, Ye.N., tekhn.red.

[Containers] Konteinery. Pod obshchei red. L.A. Kogana. Moskva,
Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia,
1960. 318 p. (MIRA 14:3)
(Railroads--Freight) (Containers)

1. 21525-66 EMP(1)/EWP(k)/EWT(d)/EWT(m)/T/EWA(d)/EWP(w)/EWP(v)/EWP(t) IJP(c) ACC NR: AP6007976 (A) SOURCE CODE: UR/0191/66/000700370071/0073	•
ACC NR. AP6007976 (A) SOURCE CODE: UR/0191/66/000/003/0071/0073 EM/RM/WW/JD/HM	
AUTHOR: Gruin, I. (Warsaw); Krukovskiy, Z.; Butskiy, L.	-
ORG: none TITLE: Properties and applications of ME-1 adhesive	
Titus, froperties and applications of Am-1 addedive	
SOURCE: Plasticheskiye massy, no. 3, 1966, 71-73	
TOPIC TAGS: epoxy resin, epoxy adhesive, modified epoxy adhesive, polyvinyl butyral, adhesion strength	
ABSTRACT: Hot-cure epoxy adhesives, which otherwise exhibit good properties, are rigid and have a low adhesion strength to metals in stripping tests. Modification of these epoxy adhesives with poly(vinyl butyral)/resulted in the development of a new adhesive, designated ME-1, which exhibits high strength in stripping tests. The ME-1 adhesive consists of epoxy resin and poly(vinyl butyral) (optimum ratio 1/1), and cyangguanid meguring account. The chelf life of the alleged and properties are	
cyanoguanidme curing agent. The shelf life of the adhesive is not less than 1 year. The adhesive can be cured at 151 to 1750 for 4 to 1.5 hr under a pressure of	
2-3 kg/cm ² . It can be used in solution or in film form. The adhesive exhibits the following properties: fatigue strength when sandwiched between sheet metal 2 and	
3 mm thick, 53.5 and 73.0 kg/cm ² , respectively: shearing strength at 20 and 80c	
300-400 and 200 kg/cm, respectively; and adhesive strength in stringing tests at	
20 and 80C, 5—7 and 8—10 kg/cm ² , respectively. The main areas of application of ME-1 adhesive in solution form are aluminum foil-plastic honeycombs, and in film	
Card 1/2 UDG: 1638.395.6	-

orm, in conting onding strengt! trength of the f the poly(ving he me-l adhesis figures.	n in such c adhesive i yl butyral)	ases exc s govern , and by	eeds ted by	that of the cl use of	f the hoice the m	hone of th ater	comb ne epo Lals i	materi xy res	al'pi in, t prope	oper. he qua er rati	The lity
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BUTSKIY, S.A.

Checking thread gauges. Izn.tekh. 20 no.1:12 Ja '59.

(MIRA 11:12)

(Gauges-Testing)

BUTSKIY, V. D.

Panel for chacking the potential of track relays. Avtom., telem. i sviaz' 7 no.4:40 Ap '63. (MIRA 16:4)

1. Starshiy elektromekhanik posta elektricheskoy tsentralizatsii stantsii Ilovayskoye Donetskoy dorogi.

(Electric relays—Testing) (Railroads—Electric equipment)

33916 \$/066/62/000/001/003/004 D041/D113

26.2181

AUTHORS:

Semilet, Z.V., Candidate of Technical Sciences, and Butskiy,

N.D., Engineer

TITLE:

Investigation of the heat emission and resistance of a

corrugated fin in a longitudinal flow

PERIODICAL:

Kholodil'naya tekhnika, no. 1, 1962, 13-16

TEXT: The authors investigated the heat emission and resistance of a corrugated fin in order to determine the best version of such a fin. A compact steel fin was cut to its base, and the obtained elements bent so that the opening angle had a maximum value at the summit and was zero at the base. The tests were carried out in an open-type wind tunnel 33 x 13 mm in cross-section, 3.5 m long. The air flow was generated by a ventilator with a capacity of $50~\rm kg/hour$. The following results were obtained: (1) A corrugated fin with an opening angle of 5° has a 45% larger heat emission than a smooth fin; an increase in the opening angle from 5 to 45° has no practical affect on the heat-emission intensity; (2) the boundary layer became turbu-

Card 1/2

33916 S/066/62/000/001/003/004 D041/D113

Investigation of the heat ...

lent when flowing from one element of the fin to the other; at an orening angle of 45°, an additional flowing-over of the air was observed; (3) a corrugated fin with an opening angle of 5° has, on the average, a 14% larger resistance than a smooth fin; an increase in the angle results in a sharp increase in the recistance, i.e. at 45° by 75 to 225%. It is recommended not to use an opening angle of more than 5°, since this does not essentially increase the heat emission coefficient but considerably increases the resistance. There are 3 figures and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The English-language reference is: W.M. Kays. A.L. London, Compact Heat Exchangers, 1955.

ASSOCIATION: Institut teploenergetiki Akademii nauk USSR (Institute of Heat

and Power Engineering of the Academy of Sciences of the

UkrSSR).

Card 2/2

10.3400

33753 \$/021/62/000/002/008/010 D299/D304

26.1200 AUTHORS:

Kremn'ov, O.O., Semylet, Z. V. and Buts'kyy, W. D.

TITLE:

Study of heat transfer and resistance of elements of plate-fin heat-exchangers with perforated and corrugated fins

PERIODICAL: Akademiya nauk UkrRSR. Dopovidi. no. 2, 1962, 196-200

TEXT: The experimental setup was described by the authors in an earlier work. The characteristics of the elements under investigation are listed in a table. Two of the corrugated elements had fins of the same dimensions (length 1 mm and height 0.5 mm), but the channels through which the air passed differed in shape: In element A, the channels had the same cross-section over the entire length, whereas in element B the cross-section was narrowed and widened alternatively. The resistance curves for the corrugated elements have a shape characteristic of rigid surfaces. The resistance of the element with variable cross-section was twice that with constant cross-section. In the third specimen (with constant cross-

Card 1/3

35753 S/021/62/000/002/008/010 D299/D304

Study of heat transfer ...

section) the distance between the fins was 2 mm. The heat transfer of all 3 corrugated elements was practically the same. In the elements with perforated fins, the heat transfer is largely dependent on the distance between the perforations. In reducing the distance between the perforations, the heat transfer increases and the resistance too. It was found that perforated surfaces with 1 mm distance between perforations were most advantageous. Although in theory perforations at small intervals are more convenient, they are not always feasible in practice. Therefore, in some cases it is more expedient to use surfaces with more widely spaced perforations. In plate-fin heat-exchangers with perforated and corrugated fins, the heat exchange increases 2 - 3 times compared to smooth fins. By analyzing the curves Nu = f(Re) it was found that in the range Re = 500-2200, a transition zone exists between laminar and turbulent flow. The numerical dependence between the Nu- and Re criteria, obtained in the investigation, can be expressed by the formula Nu = cReⁿ, where c and n depend on the value of Re (listed in a table). There are 4 figures, 2 tables and 1 Soviet-bloc refer-Card 2/3

33753

S/021/62/000/002/008/010 D299/D304

Study of heat transfer ...

ASSOCIATION:

Instytut teploenerhetyky AN UkrRSR (Institute of Heat and Power Engineering of the AS UkrRSR)

PRESENTED:

by Academician I. T. Shvets' of the AS UkrRSR

SUBMITTED:

September 8, 1961

Card 3/3

KREMNEV, O.A. [Kremn'ov, O.O.]; SEMILET, Z.V.; BUTSKIY, N.D. [Buts'kyi, M.D.]

Study of heat emission and resistance of finned lamellar heat exchangers with grid-type perforated caps having recurved rims. Zbir. prats! Inst. tepl. AN URSR no.24:14-23 '62. (MIRA 16:3)

(Heat exchangers)

SOV/115-58-1-13/50 A UTHOR: Butskiy, S.A.

A Device for Checking the Parallelism of the Work Surfaces TITLE: of Micrometers Larger Than 100 mm (Prisposobleniye dlya po-

verki parallel' nosti rabochikh poverkhnostey mikrometrov

svyshe 100 mm)

Izmeritel'naya Tekhnika, 1958, Nr 1, p 23 (USSR) PERIODICAL:

The author's unidentified plant introduced this device, which ABSTRACT:

was described in "Izmeritel'naya tekhnika", 1957, Nr 3. This article describes modifications made in the device. There

is 1 diagram.

1. Micrometers--Inspection 2. Surfaces--Calibration

Card 1/1

CIA-RDP86-00513R000307810001-1" APPROVED FOR RELEASE: 06/09/2000

AUTHOR:

Butskiy, S.A.

SOV-115-58-3-18/41

TITLE:

Measuring Devices (Izmeritel'nyye prisposobleniya)

PERIODICAL:

Izmeritel'naya tekhnika, 1958, Nr 3, p 52 (USSR)

ABSTRACT:

The design of two new devices is described and illustrated.

1) A holding device for checking micrometers of over 100 mm nominal size (Fig. 1) consisting of an aluminum body and screws. The device will be fixed on the micrometer head, after which the micrometer will be checked in the usual way by gage blocks. It is used at the Khar'kov Plant imeni V.I. Lenin. 2) A stopping device ("arrester") for use on a "IZE-10" measuring machine, consisting of a steel wire spring, a screw and a nut (Fig. 2). There are 4 diagrams.

1. Gages--Desig: 2. Gages--Inspection

Card 1/1

BUTS'KO, I.S.

Overhead pusher conveyor at the Gorkiy Automobile Plant. Avt.prom. 28 no.5:40 My '62. (MIRA 15:5)

1. Nauchno-issledovatel'skiy tekhnologicheskiy institut avtomobil'noy promyshlennosti.

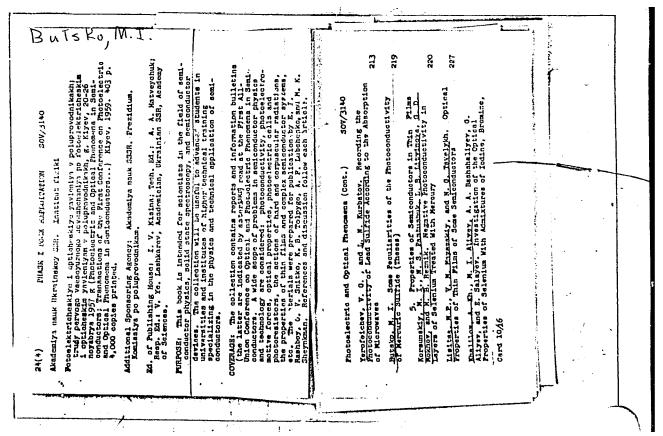
(Gorkiy--Conveying machinery)

BABKO, I.M., kand.med.nauk; BUTS'KO, L.K. [Buts'ka, L.K.], kand.med.nauk

Importance of auxiliary methods for studying the etiological characteristics of acute digestion disorders in younger children. Ped., akush. in gin. 19 no.3:30-31 '57. (MIRA 13:1)

1. Otdel profilaktiki i terapii detskikh bolezney (rukovoditel' A.M. Khvul') Ukrainskogo nauchno-issledovatel'skogo instituta okhrany
materinstva i detstva im. Geroya Sovetskogo Soyuza prof. F.M. Buyko
(direktor - zasluzh. vrach USSR M.D. Burova).

(METABOLISM, DISORDERS OF)



BUTSKO, N.I. (L'vov)

Preparation of pure sulfur. Khim. v shkole. no.2:48-49 Mr-Ap 158.
(Sulfur) (NIRA 11:3)

AUTHORS:

Butsko, N. 1. Shneyder, A. D.

57-28-6-9/34

TITLE:

The Influence Exercised by X-Rays Upon the Properties of Mercuric Sulfide (Vliyaniye rentgenovskikh luchey na elektricheskiye

svoystva sernistcy rtuti)

PERIODICAL:

Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, Nr 6,

pp. 1188-1189 (USSR)

ABSTRACT:

The high sensitivity of photoresistances of cadmium sulfides to visible α -, β -, and γ -rays gave rise to an intensive study of the electrical properties of substances resembling cadmium sulfides with respect to their structure. Considerable interest is aroused in this respect by mercuric sulfide. In the course of the present work smaller, artificially produced polycrystalline samples of mercuric sulfide of the red variety were investigated. The volt-ampère characteristic at the beginning of the ccordinate axes deviated from the straight line in the direction of the current axis, so that the dependence of the

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dark current on voltage can be represented by i = kU

The Influence Exercised by X-Rays Upon the Properties of Mercuric Sulfide

57-28-6-9/34

with the index >> >1. The further course of the volt-ampère characteristic continues to be influenced by visible light and by X-rays. If the ratio between the additional current i, and the anode current of the tube i, is taken as a measure of sensitivity, the sensitivity of the samples, the dosimetrical characteristics of which are shown by a figure, will be of the order of magnitude 0,12 microampères/milliampères (with $U_r = 100 \text{ kV}$ and $U_f = 70 \text{ v}$). Individual samples are marked by higher sensitivity. In spite of the nonlinearity of the dosimetrical characteristics mercuric sulfide, thanks to its great sensitivity, is a promising material for the production of dosimeters. Measurements also showed a close connection in HgS between sensitivity to visible light and to X-rays. The highest sensitivity to X-rays was shown by samples with high sensitivity in the visible range. Samples without photoconductivity were found to be insensitive also to X-rays. The course taken by the characteristics of

Card 2/3

The Influence Exercised by X-Rays Upon the Properties of Mercuric Sulfide

57-28-6-9/34

sensitivity to temperature to X-rays also accurately reproduces temperature sensitivity to visible light. In the dynamic characteristics certain differences are observed: The increase of current during irradiation by means of X-rays is determined by a duration that is shorter by one order of magnitude than in the case of visible light. There are 1 figure and 2 references, 2 of which are Soviet.

ASSOCIATION:

L'vovskiy gosudarstvennyy pedagogicheskiy institut

(L'rov State Pedagogical Institute)

SUBMITTED:

July 11, 1957

1. Mercury sulfides—Electrical properties 2. Mercury sulfides -- Effects of radiation 3. Mercury sulfides --Temperature factors 4. X-rays-Electrical effects

Card 3/3

66390

24,7600

sov/58-59-10-22931

Translation from: Referativnyy Zhurnal, Fizika, 1959, Nr 10, p 160 (USSR)

AUTHOR:

Butsko, N.I.

TITLE:

Effect of Molecular Adsorption on the Conductivity and Photoconductivity

of Mercuric Sulfide and Its Thermoelectric Properties

PERIODICAL:

Nauchn. zap. L'vovsk. politekhn. in-t, 1958, Nr 57, pp 155 - 159

ABSTRACT:

The author studied the effect of the adsorption of molecules of ethanol, acetone, benzene, and water on the electrical conductivity (δ) and photoconductivity (I_p) of α -HgS. Crystals of α -HgS were obtained from the gaseous phase by the method of sublimation of stoichiometric batches of the components. The author studied crystals 0.1 to 1 mm thick with an interelectrode area of 3 to 6 mm². He employed vapor pressures of 10^{-4} mm Hg to some tens of mm Hg. He found that δ and I_p increase during the adsorption of ethanol, acetone, and water. The adsorption of benzene does not affect δ and I_p . A study of the kinetics of photoconductivity showed that the relaxation time decreases during the

Card 1/2

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Effect of Molecular Adsorption on the Conductivity and Photoconductivity of Mercuric Sulfide and Its Thermoelectric Properties

adsorption of water, acetone, and benzene. The thermo-emf (α), measured on polycrystalline samples, corresponds to n-conductivity and is equal to 0.910 mV/deg in magnitude. α decreases with a rise in temperature. The author determined the α of β -HgS samples which turned out to be n-conductors. X-ray analysis showed that the structure of α -HgS is hexagonal, while that of β -HgS is cubic.

V.B.S.

Card 2/2

BUTSKO, N. I., Cand Phys-Math Sci -- (diss) "Several electrical and photoelectrical characteristics of mercury sulfide." L'vov, 1960. 7 pp; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, L'vov State Univ im Ivan Franko); 150 copies; price not given; (KL, 30-60, 135)

Butsko, N.I.

81953 \$/181/60/002/04/12/034 B002/B063

24.3900 AUTHOR:

Butsko, N. I.

TITLE:

Some Characteristics of the Photoelectric Conductivity γ of Mercuric Sulfide 1

PERIODICAL:

Fizika tverdogo tela, 1960, Vol. 2, No. 4, pp 629-632

TEXT: Mercuric sulfide was prepared by reacting the purified components in the gaseous phase; on cooling, hexagonal α -HgS forms via the cubic β -HgS. The electric and photoelectric properties of α -HgS were investigated by means of an M/21 (M/21) mirror galvanometer. The dependence of steady photoelectric conductivity (M_{0}) on illumination (E) is not linear: $\Delta\sigma_{0} = E^{\gamma} \text{ for } \gamma = 0.4 \text{ to } 0.6. \text{ A sensitivity of up to } 200 \text{ µa/lumen is attained.}$ The maximum spectral distribution of photoelectric conductivity is found at 605 mµ (Fig. 1), and a sample containing 0.4% Sn showed an additional maximum at about 705 mµ. Further, the temperature dependence of photoelectric and dark conductivity was studied (Fig. 2). Between -180°C and +350°C photoelectric conductivity has a maximum at about +250°C. At

Card 1/2

Some Characteristics of the Photoelectric Conductivity of Mercuric Sulfide

81953 S/181/60/002/04/12/034 B002/B063

low temperatures, a hysteresis loop appears, i.e., at a given temperature, photoelectric conductivity is higher on cooling than on heating. Between 320°C and 330°C it vanishes, presumably due to transition from $\alpha-$ to $\beta-HgS$. At -150°C, dark conductivity is not measurable any more, and from this point it increases up to a maximum at 310°C. A small minimum is found at 325°C. After the light has been switched off, the crystal remains excited for some minutes. An examination of the increase and decrease of the photoelectric current showed that $\alpha-HgS$ crystals belong to the hyperbolic photoelectric resistors such as Se, InSe, Tl $_2S$, Bi $_2S_3$, and CdS at low tempera-

tures. The author thanks M. M. Gol'dberg for the suggestion of this subject, and A. D. Shneyder and S. A. Bilinkevich for their advice. There are 2 figures and 6 references: 5 Soviet and 1 German.

ASSOCIATION: L'vovskiy pedagogicheskiy institut

(L'vov Pedagogical Institute)

SUBMITTED:

July 16, 1959

Card 2/2

BUTSKO, N.I. [Butsko, M.I.]; ANDRIYEVSKIY, A.I. [Andriievs'kyi, O.I.]

Effect of impurities on certain physical properties of mercury sulfide. Ukr. fiz. zhur. 8 no.9:975-978 S '63.

l. L'vovskiy politekhnicheskiy institut. (MIRA 17:8)

BUTSKO, N.T. [Butsko, M.I.]

Study of certain properties of antimony sulfide of silver. Ukr. fiz. zhur. 9 no.6:686-688 Je '64.

(MIRA 17:11)

1. L'vovskiy politekhnicheskiy institut.

VYSOTSKIY, Z.Z.; DIVNICH, L.F.; BUTSKO, S.S.

Method for recording absorption spectra of dyes in transmitted light on plate-shaped silica and aluminosilicate gels. Opt. i spektr. 12 no.2:327-328 F *62. (MIRA 15:2) (Dyes and dyeing) (Silica) (Aluminosilicates)

BUTS'KO, S. S.

USSR/Agriculture Soil Science Literature Sep L8

"Bibliography on Factors of Soil Formation, Genesis, and Geography of Soils" $1\frac{1}{2}$ pp

"Pochvoved" No 9

Lists various books on the study of soils, among them T. P. Afanas'yev's "Basic Hydrology of the Middle Reaches of the Volga," S. S. Buts'o's "Geomorphology of Landslips," and B. F. Petrpv's "Atlas Loess."

61/49T10

EUTS KO, S.S.

Earth creeps in clays with brecciated structure. Biul.MOIP.
Otd.geol. 29 no.6:105-107 NoD '54. (MIRA 8:2)
(Earth movements)

BUTS'KO, S. S. Cand Geog Sci -- (dism) "Geomorphological Analysis of Sliding Landscape and Its Effect on the Development of Slide-Prevention WKHNEKKEK Measures." Mos, 1957. 14 pp, 21 cm.

(Min of Education RSFSR, Mos Oblast Pedegasical Inst), 100 copies (KL, 16-57, 100)

-7-

Butsko, SS

SUBJEC1

USSR/Geology

5-2-17/35

AUTHOR:

None

TITLE:

On the Activities of the Geographic Section of the Moskva Society of Investigators of Nature (O deyatel'nosti geograficheskoy sekt-

sii Moskovskogo obshchestva ispytateley prirody)

PERIODICAL:

Byulleten' Hoskovskogo Obshchestva Ispytateley Prirody, Otdel

Geologichoskiy, 1957, # 2, pp 149-151 (USSR)

ABSTRACT:

During the period from December 1956 to January 1957, the following reports were delivered to the Geographical Section of the

Society:

"On the Problem of Investigation the Energy of Relief" - by N.P.

Matveyev;

"Landslides and Erosion Process" - by S.S. Buts'ke and V.A.

Fedorevskiy;

"Seismic Tectonics and Neotectonics of China" by G.P. Gorshkov,

and "New Data on Modern Velcanism in Eastern Tuva" - by M.G.

Grosval'd.

ASSOCIATION: Moskva Society of Investigators of Nature.

PRESENTED BY:

No date indicated SUBMITTED:

At the Library of Congress. AVAILABLE:

Card 1/1

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BUTS'KO, S.S., inshener.

Using calcination in hydraulic construction. Gidr. stroi. 26 no.3: 39-40 Mr '57. (MIRA 10:4)

AUTHORS:

Butsko, S.S. and Dain, B.Ya.

SOV/21-58-11-16/28

TUTLE:

Photochemical Reaction of a-Chlorophyll Oxidation by Ferric Chloride (Fotokhimicheskaya reaktsiya okisleniya khloro-

filla a khlornym zhelezom)

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 11,

pp 1221-1224 (USSR)

ABSTRACT:

The irradiation with light of 400 to 370 m wavelength of acetone solutions of the mixtures of a-chlorophyll with FeCl3, with an excess of the latter, leads to the formation of a red-colored photoproduct. This product is stable under vacuum conditions and preserves its characteristic spectrum for a long time. However, its contact with the air results in a sharp change of the spectrum. The spectrum of the final product is characteristic for ferric porphyrins (the position of peaks at 640; 580; 510 and 420 m). The rate of photoreaction decreases with an increase in ferric salt concentration. A dark after-effect of the light is observed in the reaction. This indicates the formation in the course of the photochemical reaction of stable products which act as catalyzers during the subsequent process in darkness.

Card 1/2

The authors assume that the red photoproduct is a chlorophyll

SOV/21-58-11-16/28

Photochemical Reaction of a-Chlorophyll Oxidation by Ferric Chloride

semi-oxidized in the 7 - 8 position of the IV ring.

There are 2 graphs and 3 references, 2 of which are Soviet

and 1 American.

ASSOCIATION:

Institut fizicheskiy khimii imeni L.V. Pisarzhevskogo AN UkrSSR (Institute of Physical Chemistry imeni L.V. Pisar-

zhevskiy of the AS UkrSSR)

PRESENTED:

By Member of the AS UkrSSR, A.I. Brodskiy

SUBMITTED:

June 13, 1958

Note:

Russian title and Russian names of individuals and institutions appearing in this article have been used in the transliteration.

Card 2/2

BUTSKO, S.S.; DAIN, B.Y.

Spectrophotometric analysis of chlorophyll interactions with iron. Zhur.ob.khim. 28 no.9:2603-2611 S \$58. (MIRA 11:11)

1. Institut fizicheskoy khimii AN USSR. (Chlorophyll) (Iron)

BUTSKO, S.S.; DAIN, B.Ya.

Photochemical interaction of chlorophyll with iron salts in acetone solution. Ukr.khim.zhur. 27 no.3:314-322 '61.

(MIRA 14:11)

1. Institut fizicheskoy khimii im. L.V. Pisarzhevskogo AN USSR. (Chlorophyll)
(Iron salts)

BUTS KO, S.S.

Geographical universality of the landslide process. Biul. MOIP Otd. geol. 37 no.6:139-140 N-D '62. (MIRA 16:8)

BUTS'KO, Z.N., (Moskva)

Determining the filling pressure on steep bulkheads. Insh. sbor. 23:132-137 '56. (MLRA 9:10)

(Retaining walls) (Soil mechanics)

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Coordinating conference on pedological problems. Uzb. biol. zhur.
no.4:101-102 '58. (MIRA 11:12)

(Uzbekistan--Soil research)

BUTSKOV, N.A.; NASYROV, Ya.M.; PANKOV, M.A., doktor sel'khoz. nauk, otv. red.; KURANOVA, L.I., red.; KRIVONOSOVA, N.A., red.; SOROKINA, Z.I., tekhn. red.

[Soils in the southwestern Kyzyl Kum] Pochvy IUgo-Zapadnykh Kyzylkumov. Tashkent, In-t pochvovedeniia, 1961. 198 p. (MIRA 15:7)

(Kyryl Kum-~Soils)

BUTSKUS, P.E. [Buckus, P.]; RAGUOTENE, N.V. [Raguotiene, N.]

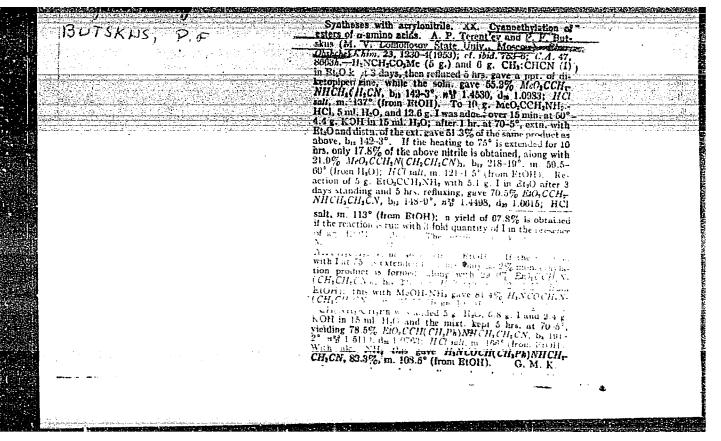
Amides of aryloxypropionic acids. Zhur.ob.khim. 33 no.2:622-624 F '63. (MIRA 16:2)

1. Vil'nyusskiy gosudarstvennyy universitet.
(Propionamide)

BUTSKUS, P.F. [Buckus, P.]; STONITE, R.Yu. [Stonyte, R.]

Some transformations of N,N-di (% -cyanoethyl)-p-toluenesulfamide. Zhur.ob.khim. 33 no.2:624-628 F 63. (MIRA 16:2)

1. Vil'nyusskiy gosudarstvennyy universitet. (Toluenesulfonamide)



BUTSKUS, F. F.

Dissertation: "Cyanethylation of Alpha-Amino Acids and Their Derivatives." Cand Chem Sci, Moscow Order of Lenin State U imeni M. 7. Lomonosov, 5 Jun 52. Vechernyaya Moskva, Moscow, 27 May 54.

SO: SUM 284, 26 Nov 1954

BUISKUS, P.F.

USSR/ Chemistry - Analysis

Card

: 1/1

Anthors

Terentyev, A. P., Butskus, P. F., and Yashunskiy, V. G.

Title

Determination of acrylonitrile with the aid of the cyanethylation

reaction

Periodical

: Zhur. Anal. Khim., 9, Ed. 3, 162 - 165, May-June 1954

Abstract

Investigations conducted on the cyanethylation of alpha-amino acid derivatives led to the development of a new method for the determination of acrylonitriles, based on the reaction of the latter with glycol. The apparature employed in connection with this new analysis method is described. The new analysis method makes it possible to determine acrylonitrile in colored mixtures containing water and ethylenecyanohydrin with an accuracy of up to 1%. Eleven references: 3-USSR, 6-USA,

2-English. Table; drawing.

Institution:

The M. V. Lomonosov State University, Moscow

Submitted

Jan. 13, 1954

BUTSKUS, P. F.

USSR/Chemistry - Reaction products

Card 1/1

• Pub. 22 - 25/48

Authors

. Terentyev, A. P., Memb. Corresp. of Acad. of Sc. USSR., and Butskus,

Title

. Cyanethylation of glycyl glycine and diketopiperazines

Periodical

₽ Dok. AN SSSR 97/5, 851-853, August 11, 1954

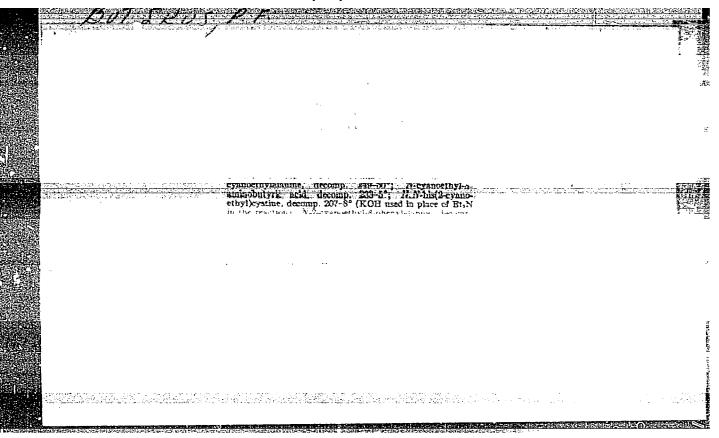
Abstract

1 The reaction of cyanethylation of a simple dipeptide - glycyl glycineand certain 2,5-diketopiperazines, was investigated. The reaction products obtained and their characteristics, are described. Three references: 2-USSR and 1-USA (1948-1953).

Institution: The M. V. Lomonosov State University, Moscow

Submitted

: May 29, 1954



TERENT'YEV, A.P.; BUTSKUS, P.F.

Synthesis with aid of acrylonitryl. Part 32: Some derivatives of cyanoethylated &-amino acids. Zhur.ob.khim. 27 no.10:2884-2888

O '57. (MIRA 11:4)

1. Moskovskiy gosudarstvennyy universitet i Vil'nyusskiy gosudarstvennyy universitet.

(Amino acids) (Ethylation)

3,

AUTHORS:

Butskus, P. F., Denis, G. I.

sov/156-58-1-31/46

TITLE:

The Reaction of the Aromatic Amines With N-Cyanogen-Ethylated α - and β - Amino Acids (Reaktsiya aromaticheskikh aminov s

N-tsianetilirovannymi α - i β -aminokislotami)

PERIODICAL:

Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya tekhnologiya, 1958, Nr 1, pp. 130 - 132 (USSR)

ABSTRACT:

In connection with the action of ammonia, hydrazine, and piperidine on the amino acids referred to in the title, the de-cyano-ethylation of the latter takes place (Ref 1). The action of aromatic amines (aniline, p-nitro-aniline, p-toluidine, β-naphthylamine) on N-monocyano-ethylated and N,N-dicyanoethylated α - and β -amino acids leads to the formation of decyano-ethylation products of the latter and to cyano-ethylation products of the aromatic amines - of the β-aryl-amino-propylnitryles. Consequently, a transition of the cyanogen-ethylgroup from one compound into another one, i.e. a trans-cyanoethylation-process (peretsianetilirovaniye) takes place. The reaction of the aromatic amines with N-monocyanogen-ethyl- α amino acids, with N-monocyanoethyl- β -amino-acids and with N, N-dicyano-ethyl-β-amino-acids takes place analogously. The

Card 1/2

The Reaction of the Aromatic Amines With N-Cyanogen-Ethylated α - and β - Amino Acids

SOV/156-58-1-31/46

reaction of aniline with N-cyanoethyl-glycyl glycine and N,N-dicyanoethyl-glycyl glycine leads to the formation of glycyl glycine and an aniline-cyanoethylation-product. All above reactions were carried out in an aqueous solution at 100°. The dicyanoethylated α -amino acids without solvent split off only one cyanoethyl group with aromatic amines at from 130 to 140° and form mono-cyano-ethyl derivatives. At higher temperatures, the second cyano-ethyl-group is also split off. Resinification takes place, however. There are 1 table and 7 references, 4 of which are Soviet.

ASSOCIATION: Kafedra organicheskoy khimii Vil'nyusskogo gosudarstvennogo universiteta im. V. Kapsukasa (Chair of Organic Chemistry at the Winyus State University imeni V. Kapsukas)

SUBMITTED:

September 16, 1957

Card 2/2

AUTHORS:

Butskus, P. F., Denis, G. I.

SOV/156-58-4-33/49

TITLE:

Cyano-Ethylation of the Aromatic Amines by Acrylonitrile and β -Substituted Propionitriles (Tsianetilirovaniye aromaticheskikh aminov akrilonitrilom i β -zameshchennymi propionitrilomi)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 4, pp 743-745 (USSR)

ABSTRACT:

The interaction of the aromatic amines with acrylonitrile and β -substituted propionitrile in the aqueous phase was investigated. N-cyano-ethylized aromatic amines are formed in this interaction. The cyano-ethylized compounds, their yield and the melting points were investigated. The cyano-ethylation by β -substituted propionitriles was carried out in the following manner: aniline in aqueous phase is added to the β -substituted propionitriles and in the course of 10 hours is treated with a reflux condenser. The reaction mixture is vaporized in vacuum on the water bath. The dry residue is dissolved in hot alcohol under addition of water and it is left to stand for several days. During this time the β -phenyl amine propionitrile formed precipitates. The reaction of the aniline with N-cyano-ethylized compounds under addition of concentrated hydrochloric acid is

Card 1/2

SOV/156-58-4-33/49 Cyano-Ethylation of the Aromatic Amines by Acrylonitrile and β -Substituted

> carried out with ethylene cyanohydrin, β -alkoxy propionitrile, and β -dicyano-ethylene-ester with small amounts of soda lye or triethyl-amine. The influence of hydrochloric acid and soda lye in this reaction is of catalytic character. The reaction of aniline with β -phenoxy-propionitrile, β -cyano-ethylethyl-mercaptan and β -chloro-propionitrile is carried out without catalyst. The cyano-ethylation of ...crylonitrile in the aqueous phase leads to the formation of β -phenyl amine propionitrile. The cyano-ethylation of p-anisidine and p-toluidine is carried out in a similar manner. There are 1 table and 14 references, 6 of which are Soviet.

ASSOCIATION: Kafedra organicheskoy khimii Vilinyusskogo gosudarstvennogo universiteta im. V. Kapsukasa (Chair of Organic Chemistry at the VIT State University imeni V. Kapsukas)

SUBMITTED:

April 16,1958

Card 2/2

BUTSKUS, P.F.

O-cyanethyltriphenylcarbinol and N-cyanethyltriphenyl-methylamine. Izv.vys.ucheb.zav.; khim.i khim.tekh. 2 no.1:51-53 '59.

1. Vil nyusskiy gosudarstvennyy universitet, kafedra organicheskoy khimii.

(Methanol) (Cyanosthylation)

AUTHOR:

Butskus, P. F.

S/153/60/003/01/032/058 B011/B005

TITLE:

Cyano-ethylation of \$-Amino Acids

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol 3, Nr 1, pp 122-123 (USSR)

TEXT: The author reports on the action of acrylonitrile and β -chloropropionitrile on β -aminopropionic acid and on β -phenyl- β -aminopropionic acid. He obtained monocyano-ethylation products of β -alanine and of β -phenyl- β -alanine, as well as the dicyano-ethylation product of \$\beta\$-alanine (see Scheme). The compounds formed were: N-ethyl-cyanide-\beta-alanine, N,N,-di-ethyl-cyanide-\beta-alanine, and N-ethylcyanide-\$\beta\$-phenyl-\$\beta\$-alanine. By heating the N-cyano-ethylated \$\beta\$-amino acids with aqueous ammonia- or hydrazine solution, a complete de-cyano-ethylation takes place, and the β -amino acids are formed. The N-ethyl-cyanide- β -amino acids give no ninhydrin reaction, and contain no amino nitrogen. No depression of the melting point occurred in the melting of mixed samples from original amino acids, and from amino acids obtained by de-cyano-ethylrtion. There are 2 references,

ASSOCIATION: Vil'nyusskiy gosudarstvennyy universitet im. Kapsukasa; Kafedra organicheskoy khimii (Vil'nyus State University imeni Kapsukas;

Card 1/2

Chair of Organic Chemistry)

AUTHOR:

Butskus, P. F.

8/153/60/003/01/033/058

B011/B005

TITLE:

Cyclization of N-Cyano-ethylated &-Amino Acids and Their

Derivatives

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya

tel:hnologiya, 1960, Vol 3, Nr 1, pp 124-126 (USSR)

TEXT: The author states that the N-mono- and N,N-di-ethyl-cyanide-& -amino acids are subject to de-cyano-ethylation and simultaneous cyclization. 2,5-diketopiperazines are formed here. Thus, N-ethyl-cyanide-2,5-diketopiperazine is formed from N-mono- and N,N-di-ethyl-cyanide-glycyl-glycine (see Schemes). The temperature was 160-170°, the reaction time 4-5 h. The author was able to prove that the de-cyano-ethylation is an intermediate stage of the reaction, for he succeeded in stopping the reaction at the stage at which substances are formed which give the ninhydrin reaction but not a picrine reaction. Cyclization of the N-ethyl-cyanide-glycyl-glycine proceeds without separation of the ethyl-cyanide group. When N,N-di-ethyl-cyanide-glycyl-glycine is heated in ethylene glycol, only one ethyl-cyanide group is separated. The result is the same in both cases: N-ethyl-cyanide-2,5-diketopiperazine. Further, the author cyclized N-ethyl-cyanide-glycine-methyl ester as well as the ethyl esters of N-cyano-

Card 1/2

Cyclization of N-Cyano-ethylated ∞ -Amino Acids and Their Derivatives

S/153/60/003/01/033/058 B011/B005

ethylated glycine and alanine. The former was cyclized most easily. The mentioned methyl ester stored for several years at room temperature cyclizes in part, and forms N,N'-di-ethyl-cyanide-2,5-diketopiperazine. At 110-120° this reaction occurs already after 80 hours. The yield is 25.8%. The mentioned ethyl esters may cyclize within 10 days at 110-120°. Small amounts of a substance, the melting point of which corresponds to that of N,N'-di-ethyl-cyanide-3,6-dimethyl-2,5-diketopiperazine, are precipitated. N-ethyl-cyanide-glycine is formed by heating the aqueous solution of N-ethyl-cyanide-glycine-methyl ester. Table 1 shows the ninhydrin- and picrin reaction of the mentioned amino acids after various heating times at 100-160°. Tables 2 and 3 list the products obtained together with constants and yields. There are 2 tables and 7 references, 2 of which are Soviet.

ASSOCIATION: Vil'nyusskiy gosudarstvennyy universitet im. Kapsukasa; Kafedra organicheskoy khimii (Vil'nyus State University imeni Kapsukas; Chair of Organic Chemistry)

SUBMITTED: April 20, 1959

Card 2/2