dominated over fluorination by a factor of 3. Only SbF_3 activated the O_2 in the zone of irradiation, leading to high yields of Cl_2 and F_2. For other fluorides the total yields of Cl_2 were ~20 - 21 Cl atoms/100 ev, practically independently of the fluoride itself. The fluorination of $C_2H_2Cl_4$ was assessed only by the amount of Cl present in the fluoride. The main radiolysis products were $C_2H_2Cl_3$ and HCl (~6.9 mol HCl/100 ev), which are less chemically reactive than the radiolysis products of CCl_4. Vacuum fluorination of $C_2H_2Cl_4$ at room temperature is not regarded as of practical interest, owing to the low yields (0.5 - 3.7 atoms/100 ev) and instability of the fluorinated products, which on heating char and evolve HCl and HF. The advice of Professor M. A. Proskurnin is acknowledged. There are 2 tables.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-Chemical Institute im. L. Ya. Karpov)

ZIMIN, A.V.; VERINA, A.D.; SIDOROVA, L.P.; GUBANOVA, A.V.

Radiation-induced chemical synthesis of organosilicon and silicon fluoroorganic compounds. Dokl.AN SSSR 144 no.3:576-578 My '62. (MIRA 15:5)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavleno akademikom V.A.Karginym.
(Silicon organic compounds) (Radiochemistry)

L 1342-66 EWT(m)/EPF(c)/EPF(n)-2/EWP(j)/T/EWA(h)/EWA(1) GG/RM

ACCESSION NR: AP5024363 UR/0286/65/000/015/0031/0031

AUTHOR: Zimin, A. V.; Verina, A. D.; Gubanova, A. V.

TITLE: A radiochemical method for producing alkyl dialkylchlorosilanes. Class 12, No. 173229

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 31

TOPIC TAGS: silane, organosilicon compound, gamma radiation, radiation chemistry

ABSTRACT: This Author's Certificate introduces a radiochemical method for producing alkyl dialkylchlorosilanes by interacting silicon hydrides with unsaturated compounds under γ-radiation. The product yield is increased by conducting the process at a temperature of 60-70°C.

ASSOCIATION: none

SUBMITTED: 02Jan65 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 000 OTHER: 000

Card 1/1

5(2)

AUTHORS: Zimin, A. V., Churmantsyev, S. V., Cubanova, A. V., Verina, A. D. SOV/20-126-4-26/62

TITLE: Simultaneous Estimation of C, H, F and Cl in Halogenized Hydrocarbons by Means of Microanalysis (Odnovremennoye opredeleniye C, H, F i Cl v galoidirovannykh uglevodorodakh metodom mikroanaliza)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 4, pp 784-786 (USSR)

ABSTRACT: Much work is dedicated to the problem of estimating in the described hydrocarbons the % content of the elements mentioned in the title (Refs 1-3). The suggested method of determining F is complicated, and results apt for being reproduced can hardly be achieved. In the present article it was proved that the simultaneous estimation of all mentioned elements by means of defining the increase of weight in absorption apparatus, is practically possible. Figure 1 shows a general scheme of the plant used for this purpose.

Card 1/3

SOV/20-126-4-26/62

Simultaneous Estimation of C, H, F and Cl in Halogenized Hydrocarbons by Means of Microanalysis

The combustion process of the weighed amount has a considerable effect on the results of the analysis. The results apt best for being reproduced, are achieved by subjecting the weighed amount first to a gradual pyrolysis by means of a gas burner (Figs 1, 5) and then burning the carbonized rest by means of a soldering burner. For the purpose of a more exact indication of the increase of weight, the absorption apparatus are tared. Their gross weight does not exceed 12-14 g. The results of analyzing some substances are shown in table 1. As may be seen, the suggested method can be applied for all substances boiling above 47°. Further possibilities of application are given. Professor K. A. Kocheshkov, Corresponding Member of the AS USSR, and Ye.M. Panov co-operated in this work. There are 2 figures, 1 table, and 4 references, 3 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im. L. Ya. Karpova (Scientific Research Institute of Physics and Chemistry

Card 2/3

SOV/20-126-4-26/62

Simultaneous Estimation of C, H, F and Cl in Halogenized Hydrocarbons by Means of Microanalysis

imeni L. Ya. Karpov)

PRESENTED: by S. S. Medvedev, Academician

SUBMITTED: February 18, 1959

Card 3/3

38128

S/020/62/144/003/022/030
B119/B101

5.4600

AUTHORS: Zimin, A. V., Verina, A. D., Sidorova, L. P., and Gubanova, A. V.

TITLE: Radiochemical synthesis of organosilicon and organofluorosilicon compounds

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 144, no. 3, 1962, 576-578

TEXT: Compounds of the type C_nH_{2n}, $C_nH_{2n-m}F_m$, C_6H_6 and C_6H_5Cl on the one hand, $HSiCl_3$, H_2SiCl_2, CH_3SiHCl_2 and $C_2H_5SiCl_2H$ on the other, were made to react mutually under the action of γ-rays (Co^{60}) at +20°C and +70°C. The resulting reaction products were fractionated by multiple condensation. The individual components were subjected to elementary analysis. Molecular weight, density, refractive index, and molar refraction were determined. A number of known compounds and the new compounds $(C_3HF_6)SiCl_3$ (d^{20} =

Card 1/3

S/020/62/144/003/022/030
B119/B101

Radiochemical synthesis of ...

= 1.6170, n_D^{20} = 1.3610, MR = 39.06, b. p. 84°C/756.5 mm Hg); $(C_3HF_6)_2SiCl_2$ (d^{20} = 1.7202, n_D^{20} = 1.3413, MR = 49.39, b. p. 160°C); $(C_3HF_5)CH_3SiCl_2$ (d^{20} = 1.4610, n_D^{20} = 1.3338, MR = 39.61, b. p. 94°C/749 mm Hg); $(C_3HF_6)C_2H_5SiCl_2$ (d^{20} = 1.4342, n_D^{20} = 1.3710, MR = 44.107, b. p. 110-112°C/752 mm Hg), and $C_2HF_4ClSiCl_2$ (d^{20} = 1.5138, n_D^{20} = 1.3645, MR = 34.718) were found. This synthetic method can be applied where the polymerization rate of olefins is lower than their reaction rate with chloro silanes. The radiation chemical yield (G) and the quantitative yield in reaction products depend on the molar quantitative ratio of the initial substances (optimum: 1 olefin molecule per H atom of chloro silane). The change of reaction temperature does not affect the radiation chemical yield of perfluoro (alkyl-dialkyl) chloro silanes (G = 80 - 100 molecules/100 ev) and of aryl chloro silanes (G = 6 - 10 molecules/100 ev). With (alkyl--dialkyl) chloro silanes, G increases from 8-10 molecules/100 ev at 20°C to 160-210 molecules/100 ev at 70°C. There is 1 table. The most important English-language reference is: A. M. El-Abbady,

Card 2/3

S/020/62/144/003/022/030
B119/B101

Radiochemical synthesis of...

L. C. Anderson, J. Am. Chem. Soc. 80, 1737 (1958).

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

PRESENTED: January 17, 1962, by V. A. Kargin, Academician

SUBMITTED: January 12, 1962

Card 3/3

SOV/14-57-12-25569

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 12, pp 33-34 (USSR)

AUTHOR: Verina, V. N.

TITLE: A Slide in the Village of Zhapka in Vertyuzhanskiy Rayon (Chastnyy sluchay obrazovaniya opolznya v s. Zhapka Vertyuzhanskogo rayona)

PERIODICAL: Uch. zap. Tiraspol'sk. gos. ped. in-t, 1957, Nr 3, pp 149-156

ABSTRACT: The slide which started in the spring of 1942 in the village of Zhapka, Vertyuzhanskiy rayon, Mold. SSR, was caused not by the accumulation of usual formational water but by the rising of artesian water from above Cretaceous rocks, through the fissures in the dissolving Sarmatian limestones and into old alluvial deposits. The aquifer is composed of Tortonian deposits and is 4.5 m thick. The impervious layer is

Card 1/3

A Slide in the Village of Zhapka (Cont.)

composed of clays and Cretaceous marls. The slide involved three upper terraces of the Dniester River. During the first three days a number of fissures appeared. These were over 2 m deep and 50 cm to 80 cm wide, and were filled with water. The process was intensified in 1945 when the entire forest area on which the slide occurred was intersected with fissures, and the clay was squeezed out to form hillocks up to 6 m high over the second terrace of the Dniester River. Furthermore, the slopes began to settle. An intensive sliding toward the river caused the fissures to widen and become filled with unconsolidated material. The settling was intensified by the continuing pressure exerted by the slide; the limestone and marl sections adjoining the valley moved toward the river and broke into separate blocks. Finally, the sliding and deluvial activity caused these blocks to move over the lower terraces of the Dniester River as far as the flood-plain. Similar phenomena were observed after the 1940 earthquake which affected the drainage in Senatovka (Vertyuzhany region), in Zastynka and Van'titsa (Soroki region), in

A Slide in the Village of Zhapka (Cont.)

Khristich (Drokiya region), and in other locations. Hydrotechnical reclamation measures could have prevented these slides. It was only necessary to provide the outlets for the water so as to prevent it from accumulating.

Card 3/3

G. K.

VERIN, Vladimir Petrovich; VERINA, Nonna Alekseyevna; KOSTINSKIY, D.N., red.; POPOVA, V.I., mladshiy red.; VILENSKAYA, E.N., tekhn.red.

[Cambodia] Kambodzha. Moskva, Gos.izd-vo geogr.lit-ry, 1960. 71 p. (MIRA 13:7)
(Cambodia)

VERINA, V. N.

14-1-345

Translation from: Referativnyy Zhurnal, Geografiya, 1957, Nr 1, p. 30 (USSR)

AUTHOR: Verina, V. N.

TITLE: Development of Karst Formations in the Highlands Adjoining the Dnestr River in the Moldavskaya SSR (Razvitiye karsta na Pridnestrovskoy vozvyshennosti v Moldavskoy SSR)

PERIODICAL: Uch. zap. Tiraspol'sk: gos. ped. in-te, 1956, i Nr 2, pp. 45-56

ABSTRACT: Karst formations occur mostly in salmation limestone in the highlands adjoining the Dnester River and in the gypsum in the northern Moldavskaya SSR. Typical karst topography is described. The steep valley slopes are wooded, and grapes grow on the southern slopes. The gentle slopes covered with alluvium could be used for orchards or berries. Schematic maps showing the development of karst formations in the highlands adjoining the Dnestr River are appended.

ASSOCIATION: Tiraspol'sk State Pedagogical Institute (Tiraspol'sk. gos. ped. in-t.)

Card 1/1

VERINA, V.N., mladshiy nauchnyy sotrudnik

Some problems of nature protection in the Rumanian People's Republic. Okhr.prir. Mold. no.1:165-176 '60. (MIRA 15:2)

1. Moldavskiy filial AN SSSR.
(Rumania--National parks and reserves)

SPASSKIY, A.A., otv. red.; AVERIN, Yu.V., doktor biol. nauk, red.; VERINA, V.N., red.; KRUPENIKOV, I.A., kand. geol.-miner. nauk, red.; ODUD, A.L., kand. geogr. nauk, red.; POKROVSKIY, V.S., kand. biol. nauk, red.; USPENSKIY, G.A., kand. biol. nauk, red.; SHAPOSHNIKOV, L.K., kand. biol. nauk, red.; POSAZHENIKOVA, Ye., red.

[Transactions of the Fifth All-Union Conference on the Conservation of Nature] Trudy Vsesoiuznogo soveshchaniia po okhrane prirody. 5th. Kishinev, Kartia moldovenieske, 1963. 267 p. (MIRA 17:11)

1. Vsesoyuznoye soveshchaniye po okhrane prirody. 5th, Kishinev, 1962. 2. Predsedatel' Komissii po okhrane prirody AN Moldavskoy SSR (for Odud). 3. Starshiy nauchnyy sotrudnik Komissii po okhrane prirody pri Gosplane SSSR (for Pokrovskiy). 4. Vitse-prezident AN Moldavskoy SSR. Deystvitel'nyy chlen AN Mold.SSR (for Spasskiy). 5. Zaveduyushchiy laboratoriyey pochvovedeniya Instituta pochvovedeniya i agrokhimii im. N.A.Dimo (for Krupenkov). 6. Institut zoologii AN Moldavskoy SSSR (for Averin).

VERINA, V.N. (Kishinev)

Fifth All-Union Conference on Conservation. Priroda 51 no.12:108-109 D '62. (MIRA 15:12)
(Conservation of natural resources—Congresses)

VERINA, V. N.

Features of the hydrography and hydrology of the Reut River basin. Uch. zap. Tir. gos. ped. inst. no.9:111-146 '60. (MIRA 16:1)

(Reut Valley(Moldavia)—Hydrology)

VERINA, V.N.

Some characteristics of the reclamation of floodplains of the right affluents of the Reut River. Okhr. prir. Mold. no.2: 74-84 '61. (MIRA 15:8)

(Ruet Valley--Reclamation of land)

VERINA, V.N.; LUNGU, R.I.; MIRSKIY, D.A.; RADUL, M.M.; RUSANOVSKIY, V.G.; TODIKA, M.P.; PODRUKHINA, V., red.; KURMAYEVA, T., tekhn. red.

[Geography of the Moldavian S.S.R.]Geografiia Moldavskoi SSR; uchebnoe posobie dlia VIII klassa. Kishinev, Gos.izd-vo "Kartia moldoveniaske," 1962. 112 p. (MIRA 15:11)
(Moldavia--Geography)

BEVZA, G.G.; VERINA, V.N.; SINYAVSKIY, P.V.

Unusually strong squall in Moldavia. Okhr. prir. Mold. no.3:51-59 '65. (MIRA 18:10)

VERINA, V.N., mladshiy nauchnyy sotrudnik

Karst in Moldavia. Okhr.prir.Mold. no.1:86-93 '60. (MIRA 15:2)

1. Moldavskiy filial AN SSSR.
(Moldavia--Karst)

VERINA, V.N.; ODUD, A.L., kand. geograf.nauk, red.; SHOTMER, A., otv. za vypusk; MILYAN, N., tekhn. red.

[Some features of the development of nature in Moldavia; popular-scientific outline] Nekotorye cherty razvitiia prirody Moldavii; nauchno-populiarnyi ocherk. Pod obshchei red. A.L.Oduda. Kishinev, Gos. izd-vo "Kartia moldovenieske," 1960. 110 p. (MIRA 14:7)
(Moldavia—Natural history)

VERINCHUK, M.

Soldiers' home. Za rul. 21 no.2:14-15 F '63. (MIRA 16:4)

1. Pribaltiyskiy voyennyy okrug.
(Motorization, Military)

VERINCHUK, N.

Crew of communist labor. Tyl i snab. Sov. Voor. Sil 21 no.10: 23-25 O '61. (MIRA 15:1)
(Tank vessels)

VERINCHUK, N.

Submarine takes off to sea. Voen.znan. 36 no.8:10 Ag '60.
(MIRA 13:7)

(Submarine boats)

VERINCHUK, N., mayor

In the sailors' tea room. Tyl i snab. Sov. Voor. Sil 21 no.9:68-69 S '61. (MIRA 14:12)
(Sailors(Navy)--Recreation))

VERINCHUK, N.

In Caspian waters. Voen. znan. 37 no.9:35 S '61. (MIRA 14:9)
(Baku--Diving, Submarine)

VERINCHUK, N.

Best in the district. Starsh.-serzh. no.5:20-21 My '62. (MIRA 15:6)
(Soldiers--Recreation)

BALAKINA, V.S., prof.; VERINGER, Yu.V., doktor med. nauk; VAYNSHTEYN, V.G., prof.; YERETSKAYA, M.F., starshiy nauchnyy sotr.; KASHKAROV, S.Ye., starshiy nauchnyy sotr.; TITOVA, A.T., starshiy nauchnyy sotr.; FREYDLIN, S.Y., prof.; TAL'MAN, I.M., red.; KHARASH, G.A., tekhn. red.; SAFRONOVA, I.M., tekhn. red.

[Concise course in traumatology]Kratkii kurs travmatologii. Leningrad, Medgiz, 1962. 287 p. (MIRA 16:1)
(TRAUMATISM)

VERIS, O.

Dr. J. Sajner and Dr. O. Veris, "Histaminwirkungen von Weissdorninfus," Die Pharmazie (Berlin), 13/1, January 1958, pp. 52-54.

Received on 8 July 1957.
From the Pharmacological Institute of the Masaryk University Medical Faculty in Brno (director: Prof. Dr. J. Stefl). The authors' address is Brno, Benesova 10.

V

VERIS, O

COUNTRY : CZECHOSLOVAKIA
CATEGORY : Pharmacology and Toxicology. Cardiovascular Agents
ABS. JOUR. : RZhBiol., No. 5 1959, No. 23183
AUTHOR : Sajner, J.; Veris, O.
INST. : -
TITLE : Histaminic Action of the Infusion from Crataegus oxyacantha L.
ORIG. PUB. : Scripta med., 1956, 29, No 7-8, 307-312
ABSTRACT : The action of a 5% infusion of Crataegus oxyacantha L. (C) upon an isolated intestine of a rabbit and a rat was compared with the action of adrenalin, atropine, enteretonine, histamine, antihistamine, barium chloride and papaverine. It was found that C contains a substance of histaminic character. C increased the action of histamine and, similarly to the latter, normalized the

Card: 1/2

57

...ion or
...duced an asth-
...humans, the in-
... C caused the appear-
...pulo. Pauly's reaction
... or histamine in C.

Card:

PROCESSES AND PROPERTIES INDEX

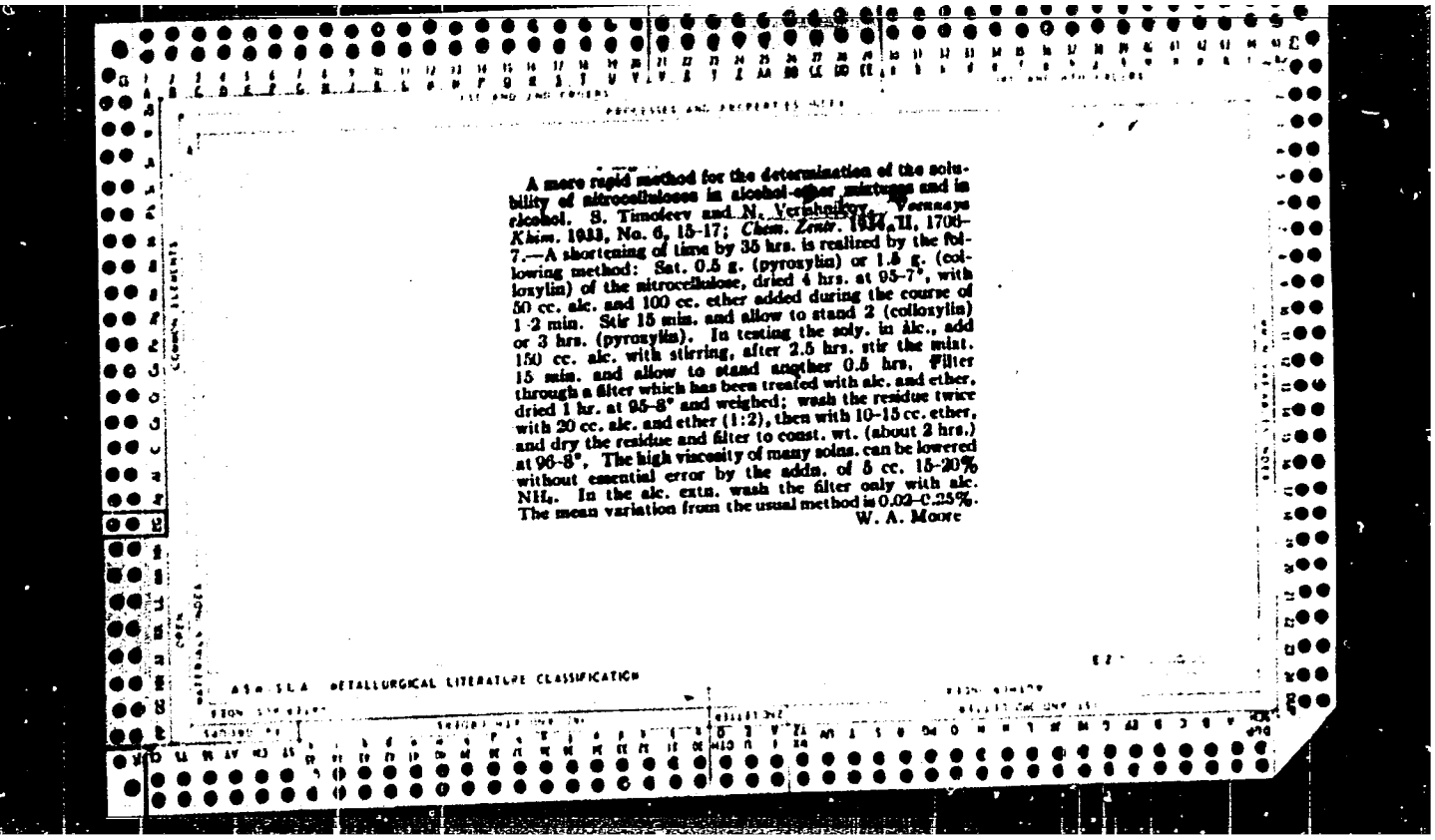
DC

B-II-5

Rapid method for determining the solubility of nitrocelluloses in alcohol-ether mixtures and in alcohol. S. [illegible] and M. [illegible] (Vosen. Chim., 1938, No. 4, 15–17).—The sample, dried for 4 hr. at 95–97°, is saturated with $EtOH$-Et_2O (1 : 2 vol.). After 2–3 hr. the solution is filtered and the residue dried at 95–98° and weighed. Solubility in $EtOH$ is determined similarly, the residue in this case being washed with $EtOH$-Et_2O followed by Et_2O before drying. The high η of some solutions may be lowered (without introducing error) by addition of aq. NH_3.

Ch. Abs. (e)

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION



A more rapid method for the determination of the solubility of nitrocelluloses in alcohol-ether mixtures and in alcohol. S. Timofeev and N. Yershukova. *Voennaya Khim.* 1933, No. 6, 15-17; *Chem. Zentr.* 1934, II, 1706-7.—A shortening of time by 35 hrs. is realized by the following method: Sat. 0.5 g. (pyroxylin) or 1.5 g. (collosylin) of the nitrocellulose, dried 4 hrs. at 95-7°, with 50 cc. alc. and 100 cc. ether added during the course of 1-2 min. Stir 15 min. and allow to stand 2 (collosylin) or 3 hrs. (pyroxylin). In testing the soly. in alc., add 150 cc. alc. with stirring, after 2.5 hrs. stir the mixt. 15 min. and allow to stand another 0.5 hrs. Filter through a filter which has been treated with alc. and ether, dried 1 hr. at 95-8° and weighed; wash the residue twice with 20 cc. alc. and ether (1:2), then with 10-15 cc. ether, and dry the residue and filter to const. wt. (about 2 hrs.) at 96-8°. The high viscosity of many solns. can be lowered without essential error by the addn. of 5 cc. 15-20% NH_4. In the alc. extn. wash the filter only with alc. The mean variation from the usual method is 0.02-0.25%.

W. A. Moore

MATRKA, Miroslav; VERISOVA, Eva; NAVRATIL, Frantisek

Detection and determination of nitrites by the method of color reaction with N,N-dimethylbenzidine. Chem listy 58 no.11:1329-1333 N '64.

1. Organic Technology Laboratory, Research Institute of Organic Syntheses, Pardubice-Rybitvi.

BUNIN, K.V., prof.; BURASHNIKOVA, N.M.; VERISOVA, M.A.; GUTOP, O.G.; KRUGLOVA, Ye.V.; LAGOVSKAYA, N.A.; PISTSOVA, M.N.

Some complications after smallpox vaccination. Sov. med. 25 no.5: 73-80 My '61. (MIRA 14:6)

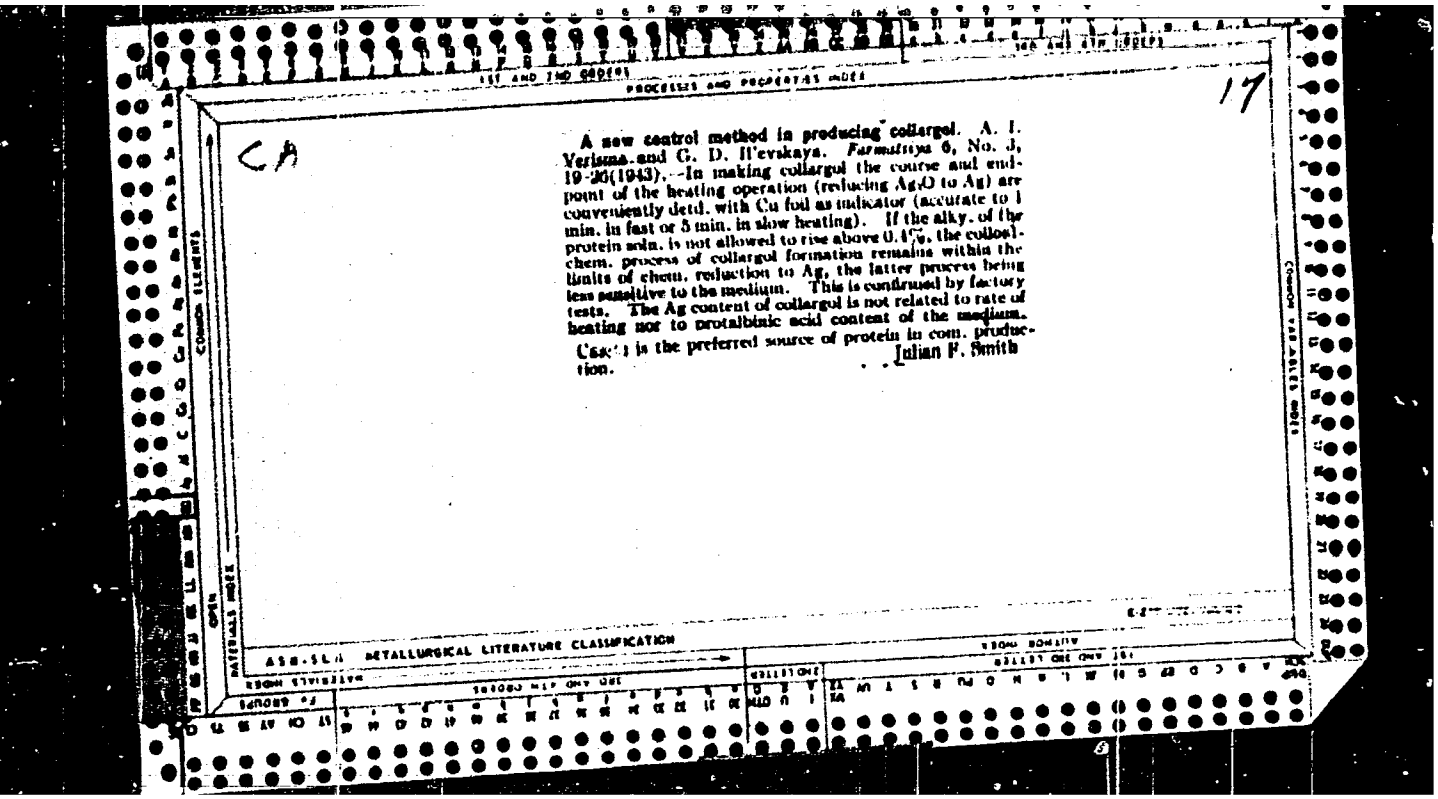
1. Iz Infektsionnoy gorodskoy klinicheskoy bol'nitsy No.1 (glavnyy vrach - zasluzhennyy vrach RSFSR N.G.Zaleskver, nauchnyy rukovoditel' - prof. K.V.Bunin).

(SMALLPOX)

SVATOS, A.;KOZLIK, Vl.;VERISOVA, Z.

Titration of secretin on small laboratory animals. Cesk. fysiol. 9 no.1:90-91 Ja 60.

1. Vyzkumny ustav pro farmacii a biochemii. Biolog. kontrola leciv —Vyzkumny ustav lec. rostlin, Praha.
(GASTROINTESTINAL HORMONES pharmacol.)



CA

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A new control method in producing collargol. A. I. Yerisma and G. D. Il'evskaya. *Farmatsiya* 6, No. 3, 19-20(1943).—In making collargol the course and end-point of the heating operation (reducing Ag_2O to Ag) are conveniently detd. with Cu foil as indicator (accurate to 1 min. in fast or 5 min. in slow heating). If the alky. of the protein soln. is not allowed to rise above 0.4%, the colloid-chem. process of collargol formation remains within the limits of chem. reduction to Ag, the latter process being less sensitive to the medium. This is confirmed by factory tests. The Ag content of collargol is not related to rate of heating nor to protalbinic acid content of the medium. Casein is the preferred source of protein in com. production.

Julian F. Smith

VERISOTSKIY, S.

Mechanizing the production of asphalt concrete. Zhil.-kom. khoz. 8 no.9:3-5 '58. (MIRA 11:10)

1. Glavnyy mekhanik Upravleniya tresta "Dormost" Lengorispolkoma.
(Leningrad--Concrete plants) (Asphalt concrete)

NESTERIN, M.F.; MIKHLIN, S.Ya.; VERISOVA, M.A.

Detecting intestinal disorders in obliterated dysentery. Sov.med. 21 no.11:69-71 N '57. (MIRA 11:3)

1. Iz laboratorii fiziologii pishchevareniya (zav.-prof. G.K.Shlygin) Instituta pitaniya AMN SSSR i 1-y klinicheskoy infektsionnoy bol'nitsy (nauchnyy rukovoditel' G.M.Kapnik) Moskvy.

(DYSENTERY, metab.
fecal enzymes in obliterated form)
(ENZYMES, determ.
in feces in obliterated form of dysentery)
(FECES, in various dis.
ferments in obliterated form of dysentery)

NASTERIN, M.F.; MIKHLIN, S.Ya.; VERISOVA, M.A. (Moskva)

Rate of ferment excretion in the evaluation of the intestinal activity in atypical and abortive forms of dysentery. Klin.med. 35 [i.e.34] no.1 Supplement:28 Ja '57. (MIRA 11:2)

1. Iz laboratorii fiziologii pishchevareniya (zav. - prof. G.K. Shlygin) Instituta pitaniya AMN SSSR i 1-y klinicheskoy infektsionnoy bol'nitsy (nauchnyy rukovoditel' - G.M.Kapnik)
(DYSENTERY) (DIGESTIVE FERMENTS)

CHERNOV, V.A., otv. red.[deceased]; VERITINA, K.V., otv. red.;
PAVLOV, A.N., red. izd-va; PRUSAKOVA, T.A., tekhn. red.;
VOLKOVA, V.G., tekhn. red.

[Microelements in soils of Yaroslavl Province] Mikroelementy v pochvakh IAroslavskoi oblasti. Moskva, Izd-vo Akad. nauk SSSR, 1962. 141 p. (MIRA 15:4)

1. Akademiya nauk SSSR. Pochvennyy institut imeni V.V.Dokuchayeva.
(Yaroslavl Province--Minerals in soil)

VERIZHENKO, Yevgeniy Petrovich; LIVSHITS, Yakov Davidovich; KOGAN, Ye.G., prepodavatel', retsenzent; BOCHAROVA, Yu.F., red.

[Statics of structures] Statika sooruzhenii. 4. izd. Moskva, Vysshaia shkola, 1965. 323 p. (MIRA 19:1)

1. Moskovskiy arkhitekturno-stroitel'nyy tekhnikum (for Kogan).

VERIZHENKO, Yevgeniy Petrovich; GOGLYUVATYY, O., redaktor; GOLOVCHENKO, O., tekhnicheskiy redaktor.

[Collection of problems and exercises in building statics] Sbornic zadach i uprazhnenii po statike sooruzhenii. Kiev, Gos.izd-vo tekhn.lit-ry USSR, 1955. 161 p. (MLRA 9:5)
(Statics) (Building)

VERIZHNIKOV, I. S.
A. I. VOLFSON, Russ. 53,897, Sept. 30, 1938

VERIZHENKO, T.M.

Production of food acids in the U.S.S.R. and prospects for its development. Trudy UNIIPP no.2:175-180 '59. (MIRA 14:1)
(Acids, Organic) (Food additives)

VERIZHENKO, Yevgeniy Petrovich; LIVSHITS, Yakov Davidovich;
PASTUSHIKHIN, V.N., kand. tekhn.nauk, dots., retsenzent;
BOCHAROVA, Yu.F., red.; VORONINA, R.K., tekhn. red.

[Statics of structures]Statika sooruzhenii. 3. izd. Moskva,
Vysshaia shkola, 1962. 306 p. (MIRA 16:2)
(Strength of materials)

VERIZHENKO, Yevgeniy Petrovich [Veryzhenko, IE.P.], dotsent, kand.tekhn. nauk; LIVSHITS, Yakov Davidovich [Livshyts', IA.D.], prof., doktor tekhn.nauk; NAZARENKO, N., red.; NEMCHENKO, I. [Niemchenko, I.], tekhn.red.

[Statics of structures] Statyka sporud. Vyd.2., perer. Kyiv, Derzh.vyd-vo lit-ry z budivnytstva i arkhit.URSR, 1959. 330 p. (MIRA 13:5)

(Structures, Theory of)

VERIZHNIKOV, S.

Leningrad builders in the struggle for technical progress. Zhil. stroi. no.5:2-5 '59. (MIRA 12:8)

1.Sekretar' Leningradskogo Gorkoma Kommunisticheskoy partii Sovetskogo Soyuza.
(Leningrad--Precast concrete construction)

VERIZHNIKOV, P.
A. DUBOVITZKII, Mineral. Udobreniya i Insektofungisidui 1, No. 2, 24-40, 1935

VERIZHNIKOV, S., arkhitektor

Large-panel construction in a new stage. Zhil. stroi. no.9:2-7 S '60. (MIRA 13:9)
(Apartment houses) (Precast concrete construction)

VERIZHNIKOV, S.

At the level of the new tasks of communist construction. Na stroi. Ros. no.11:7-9 N '61. (MIRA 16:7)

1. Sekretar' Leningradskogo gorodskogo komitota Kommunisticheskoy partii Sovetskogo Soyuza.
(Leningrad--Construction industry)

VERIZHNIKOV, Sergey Mikhaylovich, kand. tekhn. nauk; SMIRNOV, N.A., prof., nauchn. red.; ROTENBERG, A.S., red.

[Housing construction enterprises; their present state and the prospects for their development] Domostroitel'nye predpriiatiia; sostoianie i perspektivy razvitiia. Leningrad. Stroiizdat, 1964. 280 p. (MIRA 18:1)

VERIZHNIKOV, S.M.

Workers of the Leningrad construction industry in the struggle for technical progress. Stroi. mat. 5 no.1:13-17 Ja '59. (MIRA 12:1)

1.Sekretar' Leningradskogo gorkoma Kommunisticheskoy Partii Sovetskogo Soyuza.

(Leningrad--Construction industry)

VERIZHNIKOV, S.M.

Leningrad builders prepare for the 42nd anniversary of the October Revolution. Biul.tekh.inform.po stroi. 5 no.10: 1-2 O '59. (MIRA 13:3)

1. Sekretar' Leningradskogo Gorkoma kommunisticheskoy partii Sovetskogo Soyuza.
(Leningrad--Construction industry)

VERIZHNIKOV, S.M.

Leningrad builders in the struggle for technical progress.
Biul.tekh.inform. 5 no.2:1-2 F '59. (MIRA 12:4)

1. Sekretar' Leningradskogo Gorkoma Kommunisticheskoy Partii Sovetskogo Soyuza.
(Leningrad--Construction industry)

VERIZHNIKOV, S.M.

USPENSKIY, Viktor Vasil'yevich; VERIZHNIKOV, S.M., red.; ROTENBERG, A.S., red.izd-va; PUL'KINA, Ye.A., tekhn.red.

[Work teams on the construction sites of Leningrad] Kompleksnye brigady na stroikakh Leningrada. Leningrad, Gos. izd-vo lit-ry po stroit. i arkhit., 1957. 82 p. (MIRA 11:3)
(Leningrad--Building)

VERIZHNIKOV, Sergey Mikhaylovich, arkhitektor; POPOV, B.D., red.; GRIGOR'YEVA, I.S., tekhred. izd-va; BELOGUROVA, I.A., tekhn. red.

[Improving the organization of large-panel housing construction] Sovershenstvovanie organizatsii krupnopanel'nogo domostroeniia (iz opyta g.Leningrada); stenogramma lektsii. Leningrad, 1962. (MIRA 15:6)
33 p.
(Precast concrete construction)

VERIZHNIKOV, S.M.

VERIZHNIKOV, S.M.

Leningrad builders on the occasion of the 40th anniversary of the October Revolution. Biul. tekh. inform. 3 no.10:3-6 O '57. (MIRA 10:12)

1. Sekretar' Leningradskogo gorodskogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza.
(Leningrad--Construction industry)

VALDEK, R., kand.tekhn.nauk; LUTSKOVSKAYA, N.L., kand.tekhn.nauk;
Prinimal uchastiye: VERK, A., inzh.

Thermal diffusivity of kukersite during heating and thermal decomposition. Eesti tead akad tehn fuus no.3:207-214 '61.

1. Academy of Sciences of the Estonian S.S.R., Institute of Energetics.

BOLDYREV, G.P.; VOGMAN, D.A.; NOVOKHATSKIY, I.P.; VERK, D.L.; DYUGAYEV, I.V.; KAVUN, V.M.; KURENKO, A.A.; UZBEKOV, M.R.; ARSEN'YEV, G.Ya.; YEGORKIN, A.N.; KORSAKOV, P.F.; KUZ'MIN, V.N.; STRELETS, B.A.; PATKOVSKIY, A.B.; BOLESLAVSKAYA, B.M.; INDENBOM, I.B.; FINKEL'SHTEYN, A.S.; SHAPIRO, I.S.; LAPIN, L.Yu.. Prinimali uchastiye: NEVSKAYA, G.I.; FEDOSEYEV, V.A.; KASPILOVSKIY, Ya.B., ZERNOVA, K.V.. BARDIN, I.P., akademik, otv.red.; SATPAYEV, K.I., akademik, nauchnyy red.; STRUMILIN, akademik, nauchnyy red.; ANTIPOV, M.I., nauchnyy red.; BELYANCHIKOV, K.P., nauchnyy red.; YEROFEYEV, B.N., nauchnyy red.; KALGANOV, M.I., nauchnyy red.; SAMARIN, A.M., nauchnyy red.; SLEDZYUK, P.Ye., nauchnyy red.; KHLEBNIKOV, V.B., nauchnyy red.; STREYS, N.A., nauchnyy red.; BANKVITSER, A.L., red.izd-va; POLYAKOVA, T.V., tekhn.red.

[Iron ore deposits in central Kazakhstan and ways for their utilization] Zhelezorudnye mestorozhdeniia TSentral'nogo Kazakhstana i puti ikh ispol'zovaniia. Otvetstvennyi red. I.P.Bardin. Moskva, 1960. 556 p. (MIRA 13:4)

1. Akademiya nauk SSSR. Mezhduvedomstvennaya postoyannaya komissiya po zhelezu. 2. Gosudarstvennyy institut po proyektirovaniyu gornykh predpriyatiy zhelezorudnoy i marganetsovoy promyshlennosti i promyshlennosti nemetallicheskikh iskopayemykh (Giproruda) (for Boldyrev, Vogman, Arsen'yev, Yegorkin, Korsakov, Kuz'min, Strelets,

(Continued on next card)

BOLDYREV, G.P.--(continued). Card 2.

3. Institut geologicheskikh nauk AN Kazakhskoy SSR (for Novokhatskiy). 4. TSentral'no-Kazakhstanskoye geologicheskoye upravleniye Ministerstva geologii i okhrany nedr SSSR (for Verk, Dyugayev, Kavun, Kurenko, Uzbekov). 5. Nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki poleznykh iskopayemykh (Mikhanobr) (for Patkovskiy). 6. Gosudarstvennyy institut proyektirovaniya metallurg.zavodov (Gipromez) (for Boleslavskaya, Indenbom, Finkel'shteyn, Nevskaya, Fedoseyev, Karpilovskiy). 7. Mezhduvedomstvennaya postoyannaya komissiya po zhelezu AN SSSR (for Shapiro, Zernova, Kalganov). 8. Gosplan SSSR (for Lapin).
(Kazakhstan--Iron ores)

VERK, D.L.

Method of prospecting for complex ore diposits in the Atasu region. Sov. geol. 2 no.5:152-154 My. '59. (MIRA 12:8)

1.TSentral'no-Kazakhskoye geologicheskoye upravleniye.
(Atasu region--Ore deposits)

YUGOSLAVIA/Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81714.

Author : Verkade P., Stegerhoek L., Mostert-Pzn S.
Inst :
Title : The Utilization of Silver Salts of Phenylbenzyl Phosphoric Acid for the Synthesis of the Monophenyl Ester of Phosphatides. (Previous Communication).

Orig Pub: Croat chem acta, 1957, 29, No 3-4, 413-517.

Abstract: The preparation of ROP(O)(OH)(OC_6H_5) (I) here and later, of R = $CH_2CH_2OOCC_{13}H_{43}$) is described. From $(C_6H_5CH_2O)_2P(O)$ and SO_2Cl_2 - $(C_6H_5CH_2O)POCl$ is synthesized from which by the reaction with C_6H_5ONa, $(C_6H_5CH_2O)_2P(O)(OC_6H_5)$ was obtained, which by boiling with NaI in acetone gives the salt $(C_6H_5CH_2O)(C_6H_5O)$

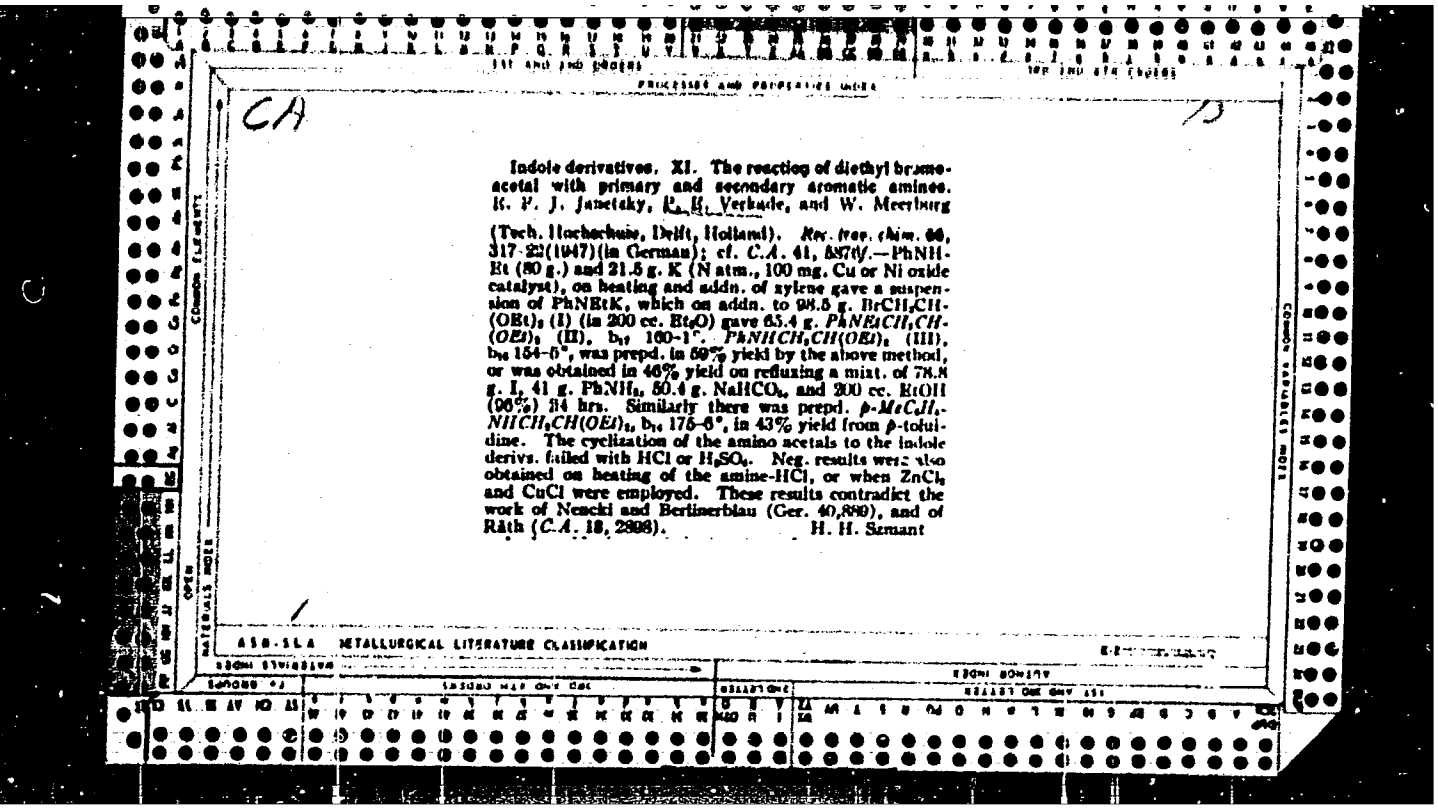
Card : 1/3

Abs Jour: Ref Zhur-Khim , No 24, 1958, 81714.

P(O)ONa, which was afterwards converted into $(C_6H_5CH_2O)(C_6H_5O)P(O)OAg$ (II). By boiling II with $ICH_2CH_2OCOC_{15}H_{31}$ in benzene, the yield of $(C_6H_5CH_2O)(C_6H_5O)P(O)(OR)$ (III) was 80-85%. By the hydrogenation of III in alcohol (~20° C.) with Pd/C (Verkade P.E. and others, Rec trav. chim., 1940, 59, 1134), the debenzylation begins and I is formed, yield 90%. One mole of I in dioxane with Pt/C absorbed 4 moles of hydrogen, and gives the corresponding phosphatides, $(C_6H_5O)(C_6H_5CH_2O)P(O)OCH_2CHOCOC_{15}H_{31}CH_2OCOC_{15}H_{31}$ (IV) and $(C_6H_5O)P(O)(OCH_2CHOCOC_{15}H_{31}CH_2OCOC_{15}H_{31})OH$ (V) have very sharp melting points, (42-43° C., and 54.5-55.5° C respectively), and were obtained similarly in high yields (80-85%). It seems that IV and V are

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81714

are formed chiefly in the form of one diastereoisomer.
(See R. Zh. Khim., 1958, 39717)



CA

15

Indole derivatives. XI. The reaction of diethyl bromoacetal with primary and secondary aromatic amines. H. P. J. Janetzky, P. H. Verkade, and W. Meerburg (Tech. Hochschule, Delft, Holland). *Rec. trav. chim.* 66, 317-22(1947)(in German); cf. *C.A.* 41, 6857f.—PhNHEt (80 g.) and 21.5 g. K (N atm., 100 mg. Cu or Ni oxide catalyst), on heating and addn. of xylene gave a suspension of PhNEtK, which on addn. to 98.5 g. $BrCH_2CH(OEt)_2$ (I) (in 200 cc. Et_2O) gave 65.4 g. *PhNEtCH$_2$CH(OEt)$_2$* (II), b_{17} 160-1°. *PhNHCH$_2$CH(OEt)$_2$* (III), b_{16} 154-6°, was prepd. in 59% yield by the above method, or was obtained in 46% yield on refluxing a mixt. of 78.8 g. I, 41 g. $PhNH_2$, 50.4 g. $NaHCO_3$, and 200 cc. EtOH (96%) 34 hrs. Similarly there was prepd. *p-MeC$_6$H$_4$NHCH$_2$CH(OEt)$_2$*, b_{14} 176-6°, in 43% yield from *p*-toluidine. The cyclization of the amino acetals to the indole derivs. failed with HCl or H_2SO_4. Neg. results were also obtained on heating of the amine-HCl, or when $ZnCl_2$ and CuCl were employed. These results contradict the work of Neuckl and Bertinerblau (Ger. 40,880), and of Räth (*C.A.* 18, 2898). H. H. Szmant

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1. VERKEREVSKIY, D. D., Prof.
2. USSR (600)
4. Spraying
7. Determining periods for spraying grapevines, Vin. SSSR, 13, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

VERKERK, H. C.; MATICKI, D.[translator]

Analysis of the administrative work. Produktivnost 3 no.6:397-412 Je '61.

VERKEYENKO, A., polkovnik

Cultivate in subordinates a care for socialist property.
Komm. Vooruzh. Sil 5 no.1:68-72 Ja '65. (MIRA 18:3)

VERKHALLO, Yu.

Low and medium power electric motors. IUn. tekh. 5 no. 12:64-66 D '60. (MIRA 14:1)

(Electric motors)

VERKHALO, Yu.

"Phonotremometer" is a product of radio engineering. IUn.tekh. 5 no.1:6-8 Ja '61. (MIRA 14:5)
(Physiological apparatus)

VERKHALO, Yu.

Gymnastics recording dynamometer. IUn.tekh. 7 no.11:8-9 N '62.
(MIRA 15:12)

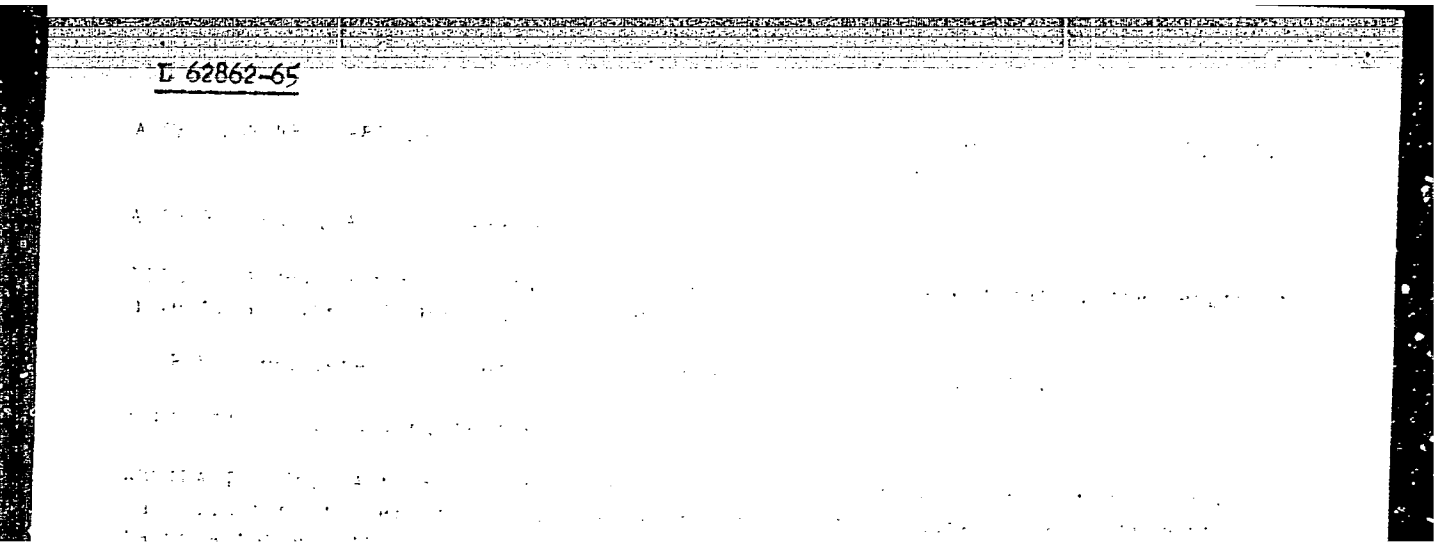
(Dynamometer) (Gymnastics)

VERKHALO, Yu.

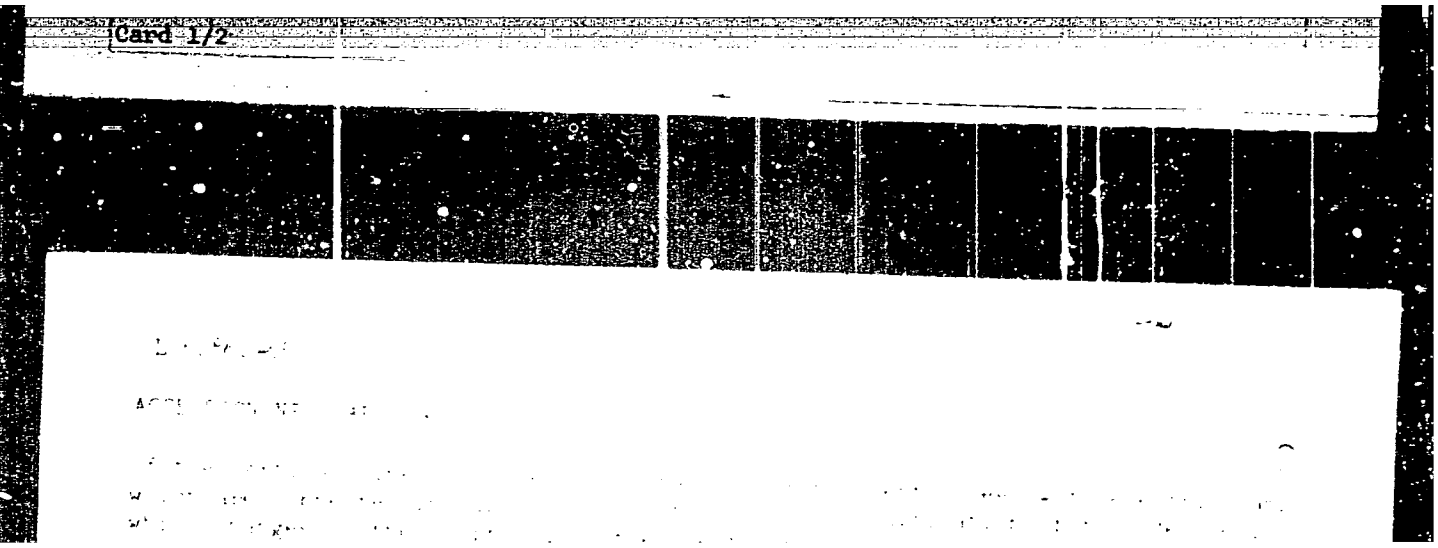
Electromagnetic diver. IUn.tekh. 6 no.1:80 Ja '62. (MIRA 15:2)
(Scientific recreations)

VERKHALO, Yu.

"Reflexometer." IUn.tekh.5 no.1:9 Ja '61. (MIRA 14:5)
(Psychological apparatus)



APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859510009-3"



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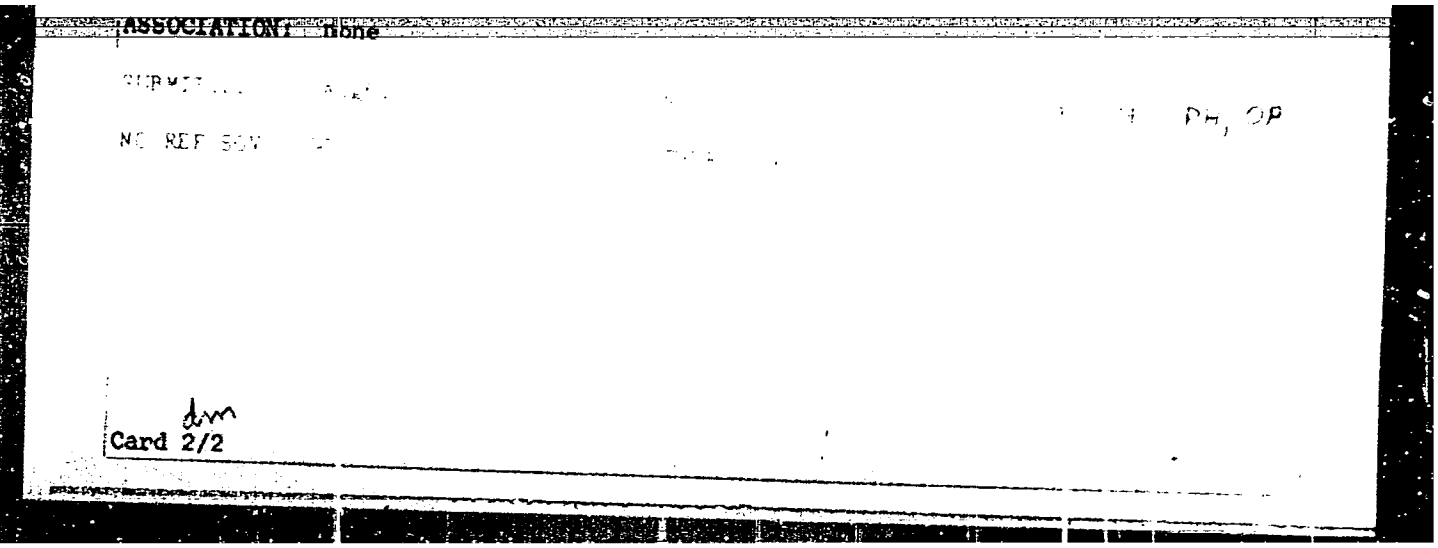

VERKHALO, Yuriy Nikolayevich; KLEVTSOV, M.I., red.

[Electronic devices for physiological research; samples from radio equipment exhibitions] Elektronnye pribory dlia fiziologicheskikh issledovanii; eksponaty radiovystavok. Moskva, Energiia, 1964. 38 p. (Massovaia radiobiblioteka, no.536) (MIRA 17:9)

AN INTEROREFLEXOMETER (USSR)

Gandel'sman, A. B., and Yu. N. Verkhalo. IN: Konferentsiya po metodam fiziologicheskikh issledovaniy cheloveka. Materialy. (Materials of the conference on methods of investigating human physiology). Moskva, 1962. 46-47.
S/926/62/000/000/001/004

An instrument has been designed at the State Institute of Physical Culture imeni P. F. Lesgaft for the exact measurement of human reactions to various stimuli acting on the vascular chemoreceptors, and for determining the capacity for subjective (secondary signal) evaluation of changes in the gas content of the blood during various activities. This is accomplished by means of a closed breathing system in which the composition and pressure of the air respired can be exactly controlled. The device consists of a closed volume with a mixing pump, tanks of gases, gas flowmeters, CO_2 and O_2 detectors, elements for measuring oxygen blood level, and other components, including

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AID Nr. 997-6 25 June

AN INTEROREFLEXOMETER [Cont'd]

S/926/62/000/000/001/004

autorecorders, and permits exact time recording of changes in the composition of the air in the closed volume and changes in the blood of the experimental subject. Exact quantitative measurement of responses to stimulation of various interceptors makes possible scientific analysis of the process of the nervous regulation of the functions of internal gas metabolism in humans, and may supply information having great practical importance to the design of equipment for underwater swimming, mountain climbing, pressure chamber training, and the like, and in ascertaining the preparedness of a given subject for intensive and protracted muscular activity.

[DMP]

Card 2/2

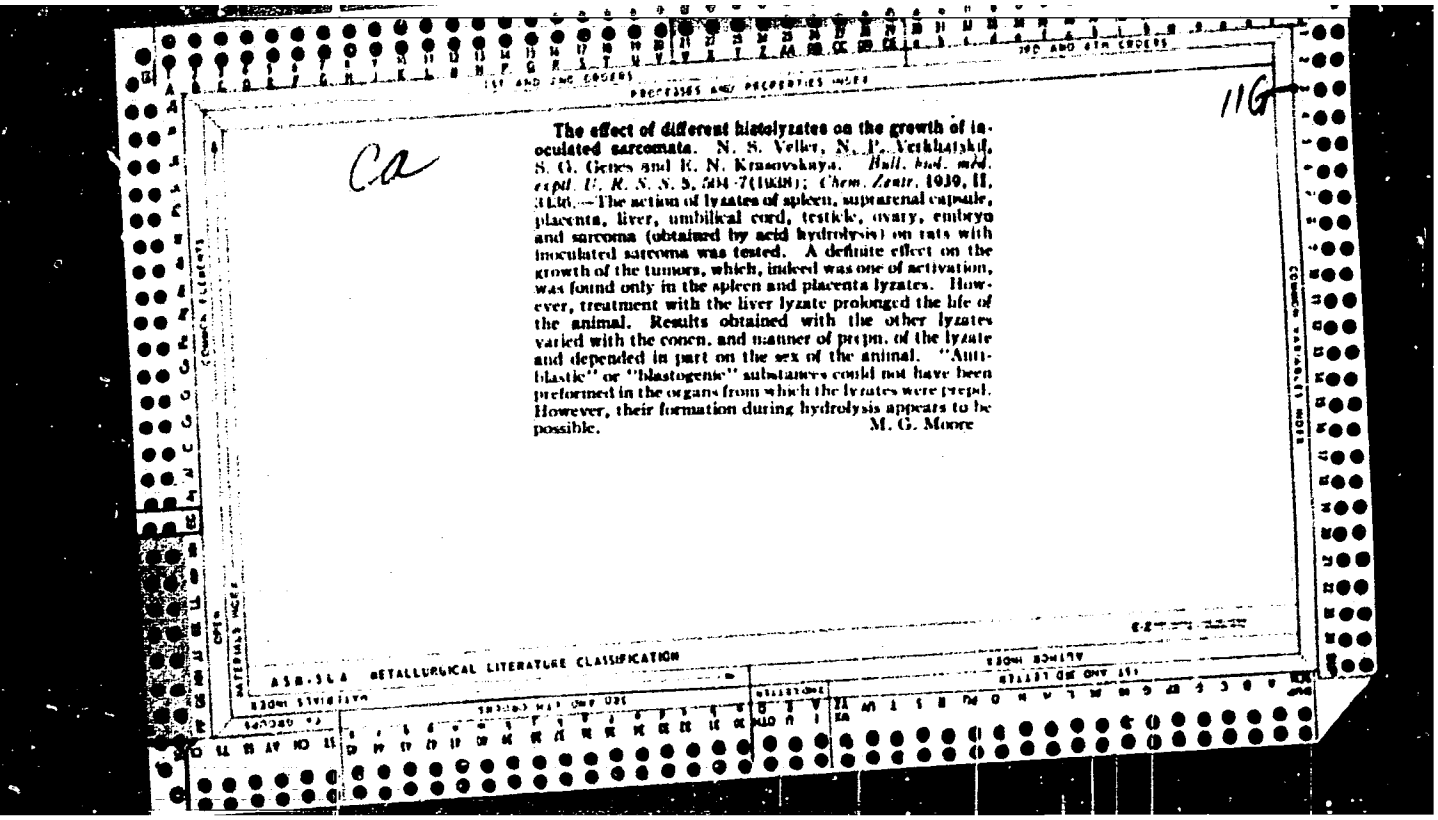
GANDEL'SMAN, A.B.; VERKHALO, Yu.N.

Chronospheroelectroreflexometer. Vop.psikhol. 6 no.2: 142-146 Mr-Ap '60. (MIRA 13:7)

1. Gosudarstvennyy ordena Lenina i ordena Krasnogo znameni institut fizicheskoy kul'tury im. P.F.Lesgafta, Leningrad.
(Psychological apparatus)

VERKHALS, Yu.

Automatic start and finish system for sport competitions. IUn.tekh. 7 no.2:49-51 F '63. (MIRA 16:4)
(Automatic timers)



Ca

116

The effect of different histolyzates on the growth of inoculated sarcomata. N. S. Veller, N. P. Verkhatskii, S. G. Genes and R. N. Krasovskaya. *Bull. biol. med. exptl. U. R. S. S.* 5, 504-7(1938); *Chem. Zentr.* 1939, II, 3140.—The action of lyzates of spleen, suprarenal capsule, placenta, liver, umbilical cord, testicle, ovary, embryo and sarcoma (obtained by acid hydrolysis) on rats with inoculated sarcoma was tested. A definite effect on the growth of the tumors, which, indeed was one of activation, was found only in the spleen and placenta lyzates. However, treatment with the liver lyzate prolonged the life of the animal. Results obtained with the other lyzates varied with the concn. and manner of prepn. of the lyzate and depended in part on the sex of the animal. "Antiblastic" or "blastogenic" substances could not have been preformed in the organs from which the lyzates were prepd. However, their formation during hydrolysis appears to be possible.

M. G. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

PA 163T36

USSR/Medicine - Penicillin, Therapy Feb 50
Endometritis

"Penicillin Therapy of Postnatal Sepsis," Prof N. P. Verkhatskiy, Obstet Gynecol Clinic, Inst of Mother and Infant Welfare, 1½ pp

"Sov Med" No 2

Discusses results of using penicillin therapy in 218 of 396 cases of postnatal and postabortal sepsis in past 4 years. Finds its effectiveness depends on form of infection and severity. Finds it ineffective in septicopyemia, complicated septic endocarditis, and diffuse peritonitis. It

163T36

USSR/Medicine - Penicillin, Therapy Feb 50
(Contd)

is most effective in endometritis, and also effective in combination with surgery in adnexitis, pelvic peritonitis, and in combination with transfusion in cases of general puerperal infections not complicated by septicopyemia.

163T36

VERKHATSKIY, N. P.;PROF

VERKHATSKIY, N.P.

Stimulation of labor with sodium chloride and quinone. Akush. gin. no.5: 18-21 Sept-Oct 1953. (CIML 25:4)

1. Professor. 2. Of the Department of Obstetrics and Gynecology (Head -- Prof. N. P. Verkhatskiy), Stanislav Medical Institute.

VERKHATSKIY, N.P., professor; LAPA, L.T.,

Treating inflammatory diseases of the female genitalia with a presacral novocaine block. Sov.med.19 no.9:61-62 S '55. (MLRA 8:12)

1. Iz kafedry akusherstva i ginekologii (zav.-prof. N.P. Verkhatskiy) Stanislavskogo meditsinskogo instituta (dir.-kandidat meditsinskikh nauk S.S.Lavrik)

(GENITALIA, FEMALE, diseases
inflamm. ther.,presacral procaine block)
(ANESTHESIA, REGIONAL, in various diseases
procaine block, presacral, in inflamm. of female genitalia)
(PROCAINE, anesthesia and analgesia
presacral block in inflamm. of female genitalia)

VERKHATSKIY, N.P., professor; LOBASYUK, T.A.

Combined treatment of acute and subacute inflammation processes in the female genitalia. Akush. i gin. 33 no.1:69-73 Ja-F '57 (MLRA 10:4)

1. Iz kafedry akusherstva i ginekologii (zav.-prof. N.P. Verkhatskiy) Odesskogo meditsinskogo instituta (dir.-prof. I. Ya. Deyneka)
(GYNECOLOGICAL DISEASES, ther.) (Rus)

VERKHATSKIY, N.P., prof.

Diagnosis and treatment of sterility in women in health resorts. Akush.i gin. 35 no.5:74-76 S-O '59. (MIRA 13:2)

1. Iz kafedry akusherstva i ginekologii (zaveduyushchiy - prof. N.P. Verkhatskiy) pediatricheskogo fakul'teta Odesskogo meditsinskogo instituta imeni N.I. Pirogova (direktor - zasluzhennyy deyatel' nauki prof. I.Ya. Deyneka).
(STERILITY, FEMALE)

VERKHATSKII, Nikolay Poliyevktovich, pro .; VEYS, Vera Poliyevktovna, kand. med. nauk; STEPANOVSKAYA, G.K., red.

[Prevention of a premature climacteric and treatment of female sterility by the transplantation of the endometrium.] Profilaktika rannego klimaksa i lechenie besplodiia zhenshchin peresadkoi endometriia. Kiev, Zdorov'ia, 1964. 135 p. (MIRA 18:2)

VERKHATSKIY, Nikolay Poliyevktovich, prof.; STEPANKOVSKAYA, G.K., red.

[Prevention of premature aging in women] Preduprezhdenie prezhdevremennogo stareniia zhenshchin. Izd.3., perer. i dop. Kiev, Zdorov'ia, 1964. 156 p. (MIRA 17:12)

VERKHATSKIY, Nikolay Poliyevktovich, prof.; STEPANOVSKAYA, G.K., red.; RYMAR, L., tekhn. red.

[Prevention of premature aging in women] Preduprezhdenie prezhdevremennogo stareniia zhenshchin. Izd.2., ispr. i dop. Kiev, Gosmedizdat USSR, 1963. 129 p. (MIRA 16:12)

(WOMEN--HEALTH AND HYGIENE) (AGING)

ACCESSION NR: AP3003050 S/0170/63/000/006/0068/0073

AUTHOR: Verkhivker, G. P.; Zubatov, N. G.; Kotlyarevskiy P. A. (Odessa) 52

TITLE: Diagram of products of gas combustion with allowance for dissociation 10

SOURCE: Inzhernerno-fizicheskiy zhurnal, no. 6, 1963, 68-73

TOPIC TAGS: Saratov natural gas, I-S diagram

ABSTRACT: An I-S diagram is presented for the combustion products from Saratov natural gas for the ranges 300 to 305° K and 0.1 to 5 million newtons/sq. meter. The products are assumed to behave as an ideal gas; the dissociation region is covered by means of an approximate method, not described in detail (Nikolayev B. A. Termodinamicheskiy raschet raketnykh dvigateley. Oborongiz, 1960). The elementary composition is 0.711 C, 0.231 H, 0.05426 N, and 0.00374 O; the excess air factor is 1. The calorific value of the gas is 16,900 kilocalories/

diagram by reference to the enthalpy at high temperatures. It is confirmed

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L 14398-63
ACCESSION NR: AP3003050

that the total error from all sources is not more than 3 percent at the highest temperatures and is usually much less. Original article has: 2 figures and 10 formulas.

ASSOCIATION: Tekhnologicheskiy institut imeni M. V. Lomonosova, Odessa (Technological Institute)

SUBMITTED: 20Dec62 DATE ACQ: 22Jul63 ENCL: 01

SUB CODE: PH NO REF SOV: 003 OTHER: 000

Card 2/3 2

DATSKOVSKIY, V.M., kand.tekhn.nauk; VERKHIVKER, G.P., inzh.;
LAGUTKIN, O.D., inzh.

Calculation for the mixing of a flowing gas and a fluid.
Teploenergetika 8 no.9:92-93 S '61. (MIRA 14:8)
(Heat--Transmission) (Fluid dynamics)

33917
S/066/62/000/001/004/004
D041/D113

11.4500

AUTHORS: Lagutkin, O.D., and Verkhivker, G.P., Engineers,

TITLE: Thermodynamic characteristics of SF_6 in a wide pressure and temperature range

PERIODICAL: Kholodil'naya tekhnika, no. 1, 1962, 24-29

TEXT: The authors plotted the entropy diagrams s,t, and s,i, and the diagram p, pv for SF_6 within the 12-240 At and 0-750°C ranges, using the theory of thermodynamic similarity. Up to now, only the experimental values of p,v,t, up to 50 At and 250°C obtained by W.G. Schneider for SF_6, as well as the thermal and calorific values of SF_6 up to 30 At and 100°C obtained by experiments carried out at VNIKhI, were known. The theory of thermodynamic similarity developed by Professor I.S. Badyl'kes (Ref.5: Rabochiye veshchestva kholodil'nykh mashin [Working media of refrigerators] Pishchepromizdat, 1952; Ref.6: Termodinamicheskoye podobiye rabochikh veshchestv i protsessov kholodil'nykh mashin [Thermodynamic similarities of working

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media and processes of refrigerators], Gostorgizdat, 1960), permits approximately determining the thermodynamic characteristics of substances according to a base (standard) substance. Since CO_2 gas and SF_6 belong to the same group of inorganic substances with the triple point above the atmospheric pressure, CO_2 gas was used as base substance. The initial data on CO_2 gas were taken from a previous paper with corrections made at the department of thermodynamics of the Odesskiy institut inzhenerov morskogo flota (Odessa Institute of Marine Engineers) taken into consideration. The inaccuracy of the plotted diagrams does not exceed 1%. There are 3 figures, 4 2 tables, and 10 references: 6 Soviet-bloc and 4 non-Soviet-bloc. The English-language references are: K.E. Mac Cormack, W.G. Schneider. "Journal of Chemical Physics", vol. 19, no. 7, 845, July, 1951; David L. Fiske, "Refrigerating Engineering", vol. 57, 1949, no. 4.

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