BERDICHEVSKIY, TS.O., inzh.

Device for adjusting and checking contact inserts of an air-membrane pedal. Avtom., telem. i sviaz' 7 no.2:37-40 F '63. (MIRA 16:3)
(Railroads—Signaling)

L 43661-66 EWT(d)/T/EWP(1) IJP(c) JT
ACC NR: AP6022526 SOURCE CODE: UR/0040/66/030/003/0510/0530

AUTHOR: Berdichevskiy, V. L. (Moscow)

ORG: none

TITLE: Construction of models of continuous media by means of the principle of variation

SOURCE: Prikladnaya matematika i mekhanika, v. 30, no. 3, 1966, 510-530

TOPIC TAGS: relativity theory, mathematic model, compressible fluid, VARIATIONAL METHOD, EQUATION OF STATE

ABSTRACT: A formal method is set forth for the construction of models of continuous media in the framework of the general theory of relativity. The principle of variation is used to obtain equations of state as well as a closed system of differential equations describing the continuous medium in which first and second derivatives of motion and field functions are the defining parameters. A continuous medium is characterized by three, generally different, energy-impulse tensors. A number of models is considered and it is shown how one may proceed from the derived formulas to corresponding expressions from Newtonian mechanics. The author thanks L. I. Sedov for suggestions made in the course of the work and during the reading of the manuscript. Orig. art. has: 118 formulas.

SUB CODE: 12,20/ SUBM DATE: 12Nov65/ ORIG REF: 007/ OTH REF: 002

Card 1/1 JS

BERDICHEVSKIY, V.S.

PIKEL'NER, S.B., Redaktor; BERDICHEVSKIY, V.S. [translator].

[Problems of cosmical aerodynamics; collection of reports] Problemy kosmicheskoi aerodinamiki; sbornik dokladov. Perevod s angliiskogo V.S.Berdichevskoi, pod red. S.B.Pikel'nera. Moskva, Izd-vo inostrannoi lit-ry, 1953. 272 p. (MLRA 6:10)

(Astrophysics) (Aerodynamics)

BERDICHEVSKIY, Ya.; SUSHILINA, L., redaktor; SHAPOVA, M., tekhnicheskiy redaktor

[All-Union Industrial Exhibition] Vsesoiuznaia promyshlennaia vystavka. Moskva, Gos. izd-vo izobrazitel'nogo iskusstva, 1956. 1 v. (MLRA 10:3)
(Moscow--Industrial exhibitions)

ABANOV, L.V.; AL'SHITS, I.Ya.; BERDICHEVSKIY, Ya.G.; KODNIR, D.S.; UMNYAGIN, M.G.; USTYUZHANINOV, M.I.; KOROLEV, A.A., kandidat tekhnicheskikh nauk, redaktor; POPOVA, S.M., tekhnicheskiy redaktor

[Liquid friction bearings for rolling mills] Podshipniki zhidkostnogo treniia prokatnykh stanov. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 195 p. (MLRA 8:6)
(Bearings (Machinery))

BERDICHEVSKIY, Ya.O.

ANTIPOV, K.F., inzhener; [illegible], doktor tekhnicheskikh nauk, professor; BARYLOV, G.I., inzhener; BEYZELMAN, R.D., inzhener; BERDICHEVSKIY, Ya.O., inzhener; BOBKOV, A.A., inzhener. KAZNIN, M.A., kandidat tekhnicheskikh nauk; KOVAN, V.M., doktor tekhnicheskikh nauk, professor; KOZLOV, V.S., doktor tekhnicheskikh nauk; KOSILOVA, A.G., kandidat tekhnicheskikh nauk; KULIKOV, L.M., doktor khimicheskikh nauk, professor; KURYACHEVA, Ye.S., inzhener; LAKHTIN, Yu.M., doktor tekhnicheskikh nauk, professor; MAYERMAN, M.S., inzhener; MOVIKOV, M.P., kandidat tekhnicheskikh nauk; PANFILOVSKIY, M.S., inzhener; PERSHIKOV, M.M., inzhener; POPILOV, L.Ya., inzhener; POPOV, V.A., kandidat tekhnicheskikh nauk; SAVEL'EV, M.F., doktor tekhnicheskikh nauk, professor; SASOV, V.V., kandidat tekhnicheskikh nauk; SATAL', S.F., doktor tekhnicheskikh nauk, professor; SOKOLOVSKIY, A.P., doktor tekhnicheskikh nauk, professor [illegible]; STANKEVICH, V.G., inzhener; SHUMIN, Yu.I., inzhener; SHPAKOV, V.I., inzhener; TSEYTLIN, L.B., inzhener; SHUKHOV, Yu.V., kandidat tekhnicheskikh nauk; BABKIN, S.I., kandidat tekhnicheskikh nauk; VOLKOV, S.I., kandidat tekhnicheskikh nauk; GOROKHOVSKIY, I.Ye., doktor tekhnicheskikh nauk, professor; GOROSHKIN, A.I., inzhener; DOSCHATOV, V.V., kandidat tekhnicheskikh nauk; [illegible], inzhener; ISAYEV, A.I., doktor tekhnicheskikh nauk, professor; [illegible], kandidat tekhnicheskikh nauk; MALOV, A.N., kandidat tekhnicheskikh nauk; MARDANYAN, M.Ye., inzhener; PANCHENKO, K.P., kandidat tekhnicheskikh nauk; SEKRETOV, I.P., inzhener; STAYEV, A.P., kandidat tekhnicheskikh nauk; SYROVATCHENKO, P.V., inzhener; TAUBE, G.A., inzhener; ZELYANINOVA, M.A., kandidat tekhnicheskikh nauk;

(Continued on next card)

ANTIPOV, K.F. ---(continued) Card 2.

GRANOVSKIY, G.I., redaktor; ... redaktor; ... redaktor; ... [deceased]; SOKOLOVA, T.F., ...

[Machine builder's manual] ... v dvukh tomakh, red.sovet V.N. ... i dr. Moskva, Gos.nauchno-te... Vol. 1. (Pod red. A.G.Kosilov...) ... 584 p.

(Machinery Industry)

SOV/29-59-4-14/26

25(1)

AUTHOR: Berdichevskiy, Ye., Director of the Rubber-ware Factory Nr 4

TITLE: An Enterprise for Sportsmen (Zavod - sportsmenam)

PERIODICAL: Tekhnika molodezhi, 1959, Nr 4, pp 18 - 19 (USSR)

ABSTRACT: In an introduction of the present article some opinions on the Rubber -ware Factory Nr 4 "Mosrezina" are published. The gluer (kleyshchitsa) Klavdiya Yegorova: "Our factory is the only one of its kind and extremely necessary for sportsmen. We endeavor to support the honor of Soviet sports". Antonina Mun: "Recently, we produced the latest shoe models for the basket-ball selection team which went to Chili". State tennis coach Bel'yayev said in conversation with the head of the gluing workshop: "Your enterprise is our hope and support. The sports equipment of our country must finally become better than foreign products". Furthermore, the report of the author is given. In the Rubber-ware Factory Nr 4 above all sports shoes, basket ball, football, and training shoes for athletics are produced. World champion V. Kuts, the meritorious sports champion F. Vanin et al participated in the elaboration of shoe models for long

Card 1/2

distance runners. The demand in rubber shoes is steadily increasing. According to this fact a new assembly line was put into operation in this factory which makes possible a 15 - 20% raise of production. Apart from shoes also various sports equipment is produced. Among them tyres for racing cycles, the weight of which could be successfully reduced from 320 g to 270 g. Moreover, rubber disci are produced indoor training. Also goggles for skiers and motocyclists are produced in the factory. Special jumping ropes which may be recommended to every sportsman are produced on the basis of the design by coach Sobinov. For water sports fins, two types of masks and breatling apparatus are produced. In 1959 25000 to 30000 sets will be produced. There are 4 figures.

RED'KO, S.G.; BERDICHEVSKIY, Ye.G.; FILIMONOVA, Ye. A.

Using high-concentrated emulsions in honing hardened steels. Stan. i instr. 36 no. 12:12-13 D '65 (MIRA 19:1)

MISHCHENKO, N.M., inzh.; BERDICHEVSKIY, Ye.Ye., inzh.; TERMINOSYAN, N.S., inzh.; KURILOV, A.I., inzh.; POLYAKOV, M.M., inzh.; DEMIDOVICH, Ye.A., inzh.; PINDYURIN, N.I., inzh.; Prinimali uchastiye: MALINOVSKIY, V.G.; MOLCHANOV, I.V.; MASHISHINA, M.P.; YEMCHENKO, Ye.K.; CHEREDNICHENKO, A.A.; STEPANOV, V.A.; SKACHKOV, L.N. [deceased]; KOSHMAN, A.I.; SHCHEKLIN, V.V.; CHUBATYUK, Ye.G.; KHITOVA, Ye.Ye.; KOROBOVA, G.Z.; ROTMISTROVSKIY, B.M.; VEYSBEYN, A.D.

Increasing the efficiency of section tandem mills by the use of repeaters. Stal' 23 no.3:236-241 Mr '63. (MIRA 16:5)

1. Yenakiyevskiy metallurgicheskiy zavod.
(Rolling mills--Equipment and supplies)

BARDIKOV, V.F.; GUR'YEV, A.V.; MALOVECHKO, G.V.

Attachment to the PMT-3 apparatus for automatic loading with a damping device. Zav. lab. 30 no.11:1398-1399 '64
(MIRA 18:1)

1. Volgogradskiy politekhnicheskiy institut.

BERDIKOV, V.P. (Leningrad)

Designs of drainage for heating systems. Vod.i san.tekh. no.8:25-30 Ag '57. (MIRA 10:11)
(Sewerage) (Hot-water heating)

ACCESSION NR: AP4024066 S/0048/64/028/002/0394/0395

AUTHOR: Berdikov, V.V.; Silant'yev, A.N.

TITLE: Gamma radiation from Pa^{233} /Report, Thirteenth Annual Conference on Nuclear Spectroscopy held in Kiev 25 Jan to 2 Feb 1963/

SOURCE: AN SSSR. Izvestiya, Seriya fizicheskaya, v.28, no.2, 1964, 394-395

TOPIC TAGS: γ-radiation, γ-ray spectrum, Pa^{233}

ABSTRACT: Since 1952 there have been several studies of the radiations from Pa^{233}. It is known that in the decay of this isotope there are emitted γ-rays with energies of 301, 312 and 340 keV; however, there is disagreement in the reports of different investigators regarding the relative intensities of these γ-rays and the multipole orders of the corresponding transitions. In the present work, using the method of $\beta-\gamma$ coincidences (A.N.Silant'yev, Izv.AN SSSR,Ser.fiz.25,270,1961) there were determined the total absolute intensity of the 301, 312 and 340 keV γ-rays (49 ± 5%), and the absolute intensity of the K x-rays together with the 74, 86 and 104 keV γ-rays (33 ± 4%). There was also determined the integral intensity of the 370, 400 and 417 keV γ-rays (5%). The experimental γ-ray spectrum is shown in a fi-

Card 1/2

ACCESSION NR: AP4024066

gure. The K, L and M shell conversion coefficients for the 312 keV γ-rays, evaluated on the basis of the data and conversion electron data in the literature, are 0.6, 0.1 and 0.02, respectively. Thus, according to the data of the present study the intensity of the 312 keV transition is 71% (which is in good agreement with the direct measurements of L.Elliott and A.Underhill (Har.,761,1952)) and the total number of transitions to the ground state is 97%. Orig.art.has: 1 figure and 1 table.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 08Apr64 ENCL: 00

SUB CODE: NS NR REF SOV: 004 OTHER: 001

Card 2/2

M-8

USSR/Cultivated Plants. Subtropical. Tropical.

Abs Jour: Ref. Zhur-Biologiya, No 5, 1958, 20539.

Author : N.P. Berdikovskaya, N.M. Vil'chinskiy.
Inst : Not given.
Title : Sideration Bolsters Winter Hardiness in the Tea Shrub. (Sideratsiya povyshayet zimostoykost' chaynogo kusta).

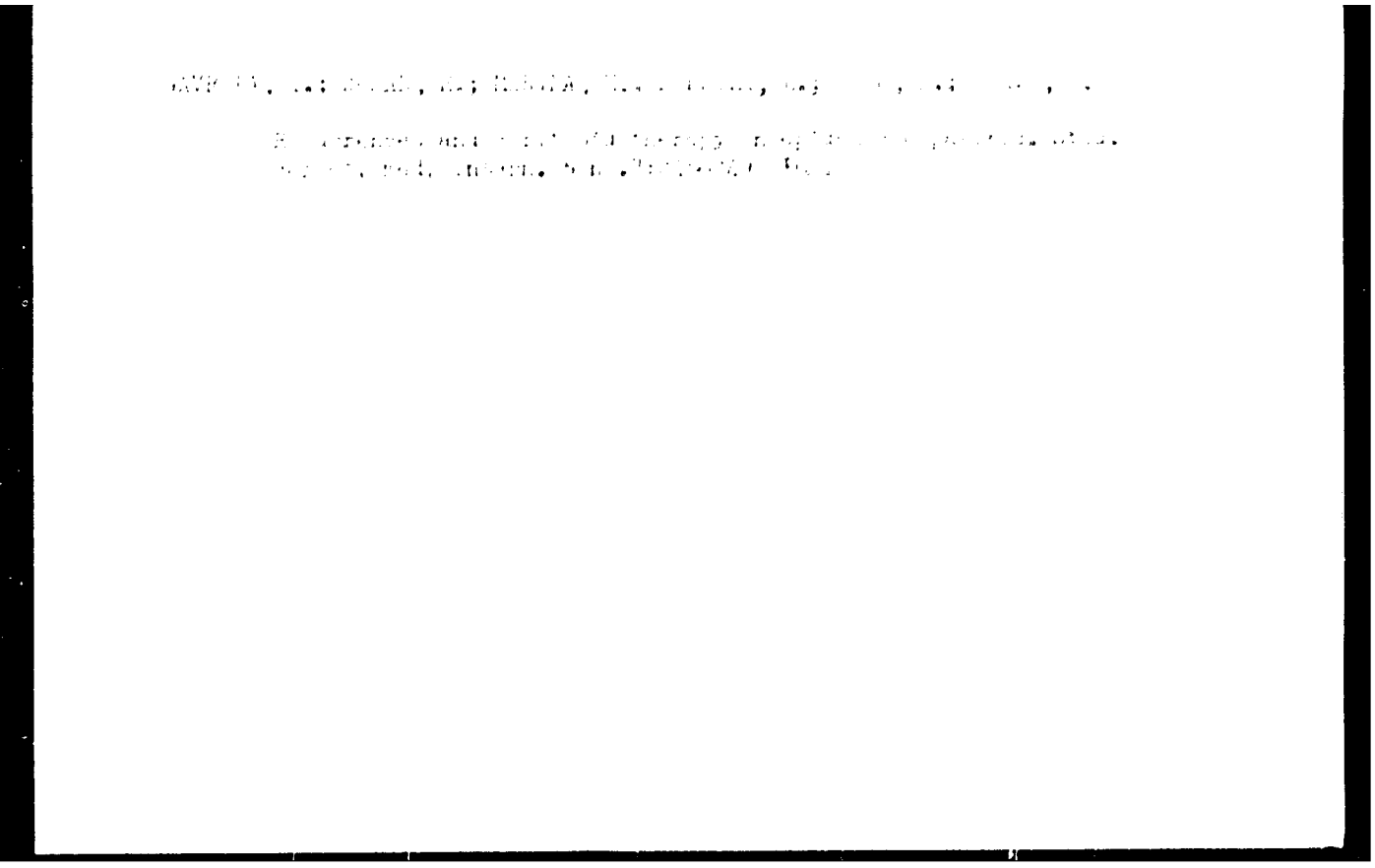
Orig Pub: Udobreniye i urozhay, 1957, No 1, 45-47.

Abstract: A study of the effect of feeding on the acclimatization of the tea shrub was made by the Botanical Garden of the Academy of Sciences Ukrainian SSR at its testing field in Mukachevskiy Rayon in the Zakarpatskaya Oblast' during 1953-1956. The podzolic soil of the field was plowed before sowing the tea in 1953 to a depth of 45-50 cm and fertilized with P_c and manure (35 tons per hectare). The sideral fertilized cultures (blue lupine and pea) were

Card : 1/2

GAVRILA, I.; COMES, L.; IGNA, M.; BERDILA, L.; MARINA, M.; TURCAS, C.; KIRALY, M.

Transaminase and aldolase in the diagnosis of epidemic hepatitis. Stud. cercet. med. intern. 3 no.4:461-471 '62.
(JAUNDICE) (HEPATITIS, INFECTIOUS) (ASPARTATE AMINOTRANSFERASE) (ALDOLASE)



CHAGIN, I.A.; LITVINOVA, L.D.; [illegible], Zh.B.

Growth of some systems of organs in the fetuses of fine-wool ewes and argali Merino sheep in Kazakhstan. Trudy Inst. eksp. biol. AN Kazakh. SSR. 1:160-171 '64. (MIRA 18:4)

BERDIN[illegible] B.E.

Roentgenographic study of the development of the skeleton in
[illegible] and weight [illegible]
Trudy Inst. oksp. Biol. AN Kazakh. SSR, 1:191-215 '64. (MIRA 18:4)

BERDIMURATOV, Zh.B.

Use of mathematical anamorphosis in studying the laws governing the growth of the fetus in sheep. Izv. AN Kazakh. SSR. Ser. biol. nauk 3 no.6:66-74 N-D '65.
(MIRA 19:12)

BERDIN, A. YA.

"Soviet Planning for Fishing Industry."

Report Presented at the FAO Seminar and Study Tour for Fishery Administrators from the Indo-Pacific and Mediterranean Regions, Moscow 11 Sep-14 Oct 1961.

S/123/61/000/022/013/024
A004/A101

AUTHORS: Voytovich, V.A., Kitayeva, L.I., Berdinkova, V.V., Kuznetsova, T.V.

TITLE: Anticorrosion protection of metal parts by plastics. Report I. Practice of using the ГЭН-150 (В) (GEN-150[V]) elastomer

PERIODICAL: Referativnyy zhurnal. Mashinostroyeniye, no. 22, 1961, 79, abstract 22B477 ("Tr. Proyektn. tekhnol. i n.-i. in-ta. Gor'kovsk.sovnarkhoz", 1960, no. 2 (4), 35 - 37)

TEXT: The authors describe a new anticorrosion coating, the GEN-150(V) elastomer, representing a composition of nitrile caoutchouc and a special synthetic resin. Prior to heat treatment the material dissolves well in acetone, benzene, toluol or ethyl acetate. The elastomer solution can be applied by a brush, by pouring, spraying or dipping. If the coating is applied by spraying a 5% acetone solution of the elastomer is used. Spraying is effected with a sprayer designed by the Konstantinovka "Avtosteklo" Plant. The application of the coating by other methods requires a 15-20% solution in benzene, toluol, ethyl acetate or Р-4 (R-4) solvent. The metal surface is prepared for the coating in the following way: sandpaper cleaning, degreasing, careful drying. To

Card 1/2

Anticorrosion protection ...

obtain a dense coating, 4 - 5 elastomer layers are applied. The first layer is held at room temperature for 2 hours (at 50°C for 1 hour). The second and subsequent layers are applied in the same way, the final top layer is held in air for 2 - 3 hours, at 50°C for 1 hour and at 150°C for 2 hours. The obtained film possesses an adhesion to steel and aluminum of 35 kg/cm^2, does not break at repeated bending through 360°C and does not lose its properties during a 200-hour holding in oil at 150°C.

N. Savina

[Abstracter's note: Complete translation]

Card 2/2

BERDINSKIKH, G.S.

Parameters of the charging device for a condenser discharge welding machine. Avtom. svar. 16 no.11:57-62 N '63.
(MIRA 17:1)

1. Vsesoyuznyy zaochnyy energeticheskiy institut.

BERDINSKIKH, I.P., and M.A. KUZNETSOV

Proizvodstvo dereviannykh samoletov. Moskva, Oborongiz, Glav. red. aviatsionnoi lit-ry, 1945. 390 p., illus., diagrs.

Title tr. : Manufacture of wooden airplanes.

TL671.28.B3

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

Berdinskikh, I. P.

BERDINSKIKH, I. P.

Sushka i sklеika drevesiny v pole tokov vysokoi chastoty. (Redaktor V. V. Orlevskii). Kiev, Mashgiz, 1950. 166 p., diia ru.

Bibliography: p. 166.

Title tr.: Drying and gluing of wood in the high frequency currents field.

TS837. B37

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

BARINSKIY, I. F.

Klei i sklevanie [Glues and gluing]. Moskva, Mashgiz, 1953. 2[illegible].

SO: Monthly List of Russian Accessions, Vol. 7 No. 2 May 1954.

PEDINSKIY, I. I.

Proizvodstvo mebeli [Furniture manufacture]. Moskva, Goslestumizdat, [1954?]
408 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 3, June 1954.

BERDINSKIKH, I.P.

MOROZOV, G.A., inzhener; SLUTSKIY, M.B., inzhener.

Book written without knowledge of the subject ("Furniture manufacture." I.P.Berdinskikh. Reviewed by G.A.Morozov, M.B.Slutskii. Der. i lesokhim.prom. 3 no.8:30-32 Ag '54. (MLRA 7:8)
(Furniture industry) (Berdinskikh, I.P.)

BERDINSKIY, I.P. SIKORSKIY, I.A.

Category : USSR/Electricity - Dielectrics G-2

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 1528

Author : Berdinskiy, I.P., Sikorskiy, I.A., Koblikova, A.G.
Title : On the Dielectric Constant of Lumber

Orig Pub : Derevoobrabat. prom-st', 1955, No 9, 16-17

Abstract : No abstract

Card : 1/1

BERDINSKIKH, I.P., kandidat tekhnicheskikh nauk.

Graphic solution for the problem of contact heating on both sides of wood being glued. Der.prom. 5 no.4:13-16 Ap '56. (MIRA 9:7)

1.Ukrainskaya sel'skokhozyaystvennaya akademiya.
(Gluing)

БЕРДИНСКИЙ, И. П.

Category : RUMANIA/Electricity - Dielectrics G-2

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 1529

Author : Berdinski, I.P., Sikorski, I.A., Koblikova, A.G.
Title : On the Dielectric Constant of Lumber

Orig Pub : An. Rom.-Sov. Ser. silvicult.-ind. lemn. si hirt., 1956, 10, No 1, 122,125

Abstract : Translation from the periodical "Derevoobrabatyvayushchaya promyshlennost' " [Woodworking Industry] (see Ref. Zhur. Fiz, 1957, 1528).

Card : 1/1

BERDINSKIKH I P

NOSIKOV, Zinoviy Alekseyevich; BERDINSKIKH, I.P., dots., kand.tekhn.nauk, red.; MARTSINYUK, Ya.P., red.; ZELINKOVA, Ye.Ye., tekhn.red.

[Carpentry and joinery] Plotnichnye i stoliarnye raboty. Izd. 2-e, ispr. Kiev, Gos. izd-vo lit-ry po stroit. i arkhit. USSR, 1957. 349 p. (MIRA 11:4)
(Carpentry) (Joinery)

BERDINSKIKH, Ivan Pavlovich; ZASLAVSKAYA, T., red.; ZELENKOVA, Ye., tekhn.red.

[Wood gluing] Skleivanie drevesiny. Kiev, Gos.izd-vo lit-ry po stroit. i arkhit.USSR, 1959. 304 p. (MIRA 13:3)
(Woodwork) (Gluing)

BERDINSKIKH, Ivan Pavlovich; LUKICHEV, I.K., red.; PROTANSKAYA, I.V., red.izd-va; KORNYUSHINA, A.S., tekhn.red.

[Veneering] Fanerovanie drevesiny. Moskva, Goslesbumizdat, 1960. 103 p. (MIRA 13:11)
(Veneers and veneering)

BERDINSKIKH, I.P.

Veneering conditions preventing the penetration of the glue through the plywood. Bum. i der. prom. no.3:34-37 Jl-S '64. (MIRA 17:11)

ROMANOVSKIY, Samuil Grigor'yevich; BERDINSKIKH, I.F., kand. tekhn. nauk, retsenzent

[Induction drying by means of commercial frequency currents] Induktsionnaia sushka tokami promyshlennoi chastoty. Kiev, Gostekhizdat USSR, 1963. 119 p. (MIRA 16:6)

BERDINSKIKH, Ivan Pavlovich; VOLOSHCHENKO, Z.N., red.

[Wood gluing] Sklelvanie drevesiny. Izd.2., perer. i dop. Kiev, Budivel'nik, 1965. 322 p. (MIRA 18:12)

BERDINSKIKH, M.I., BAYGULOVA, S.A.

Use of oxygen in treating helminthiasis. M.I. Berdinskikh, S.A. Baigulova. Med.paraz. i paraz.bol. 27 no.2:216 Mr-Ap '58 (MIRA 11:5)

1. Iz 7-y Kazanskoy gorodskoy bol'nitsy i Kazanskoy gorodskoy sanitarno-epidemiologicheskoy stantsii.
(OXYGEN--THERAPEUTIC USE)
(WORMS, INTESTINAL AND PARASITIC)

BERDINSKIKH, M. S.: Master Med Sci (diss) -- "The effect of salivary inhibitors on the virus of epidemic parotitis and their significance in immunity". Moscow, 1958. 10 pp (Acad Med Sci USSR), 200 copies (KL, No 6, 1959, 142)

BERDINSKIKH, M.S., KOSYAKOV, P.N.

Effect of sialic inhibitors on epidemic parotitis virus hemagglutinins. [with summary in English]. Vop.virus. 3 no.5:287-292 S-O '58 (MIRA 11:10)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva.

(MUMPS, virus,
eff. of saliva on viral homagglutinins (Rus))
(SALIVA, effects,
on mumps virus hemagglutinins (Rus))

BERDINSKIKH, M. S., ROVNOVA, Z. I., KOSIKOV, P. N.

"Influence of viruses on specific and non-specific humoral factors of immunity."

Report submitted for the 1st Intl. Congress on Respiratory Tract Diseases of Virus and Rickettsial Origin, Prague, Czech. 23-27 MAY 1961.

KOSYAKOV, P.N.; BERDINSKIKH, M.S.; ROVNOVA, Z.I.

Ability of viruses to overcome the action of inhibitors and antibodies. Vop. virus 7 no.1:28-35 Ja-F '62. (MIRA 15:3)

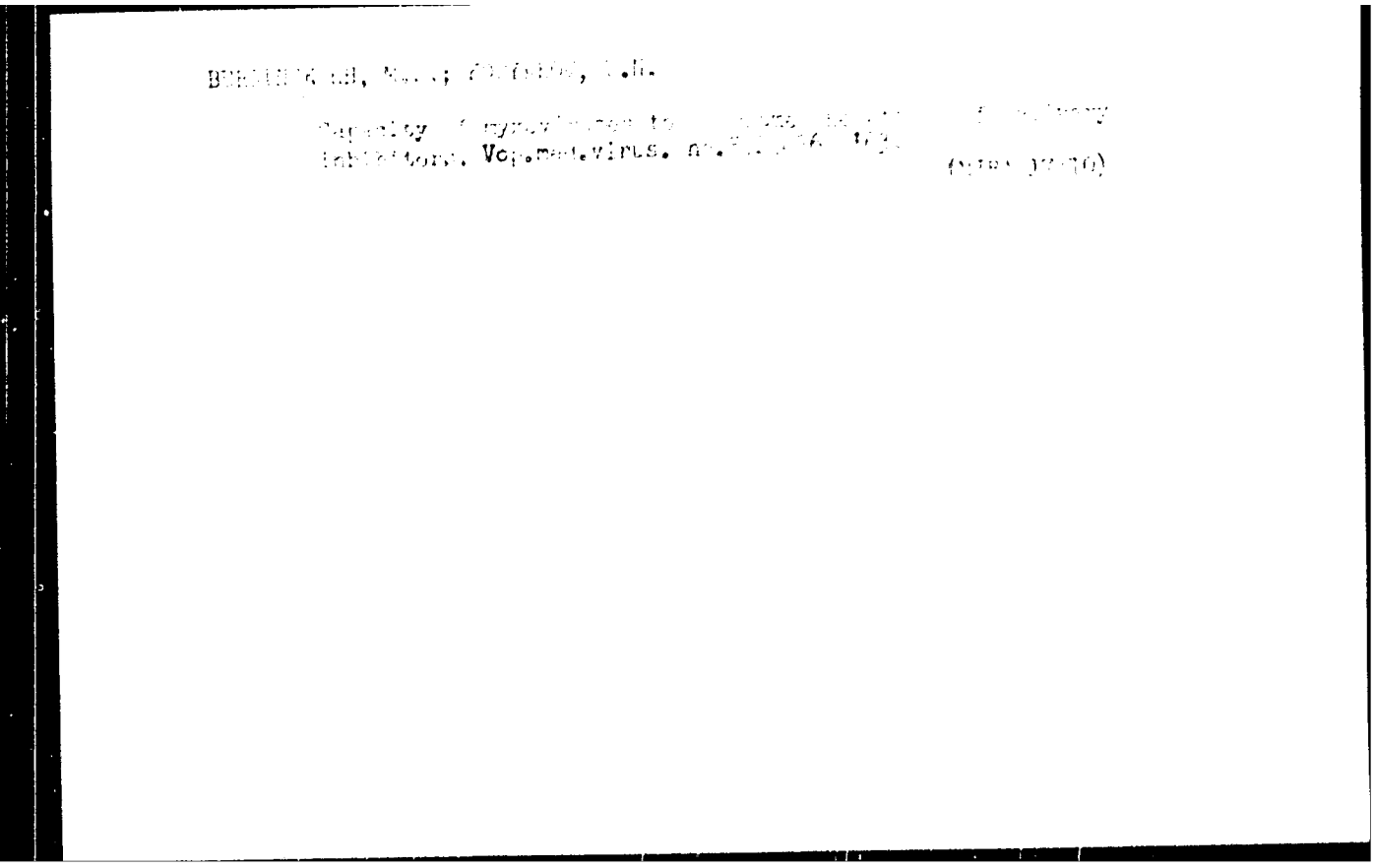
1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva.

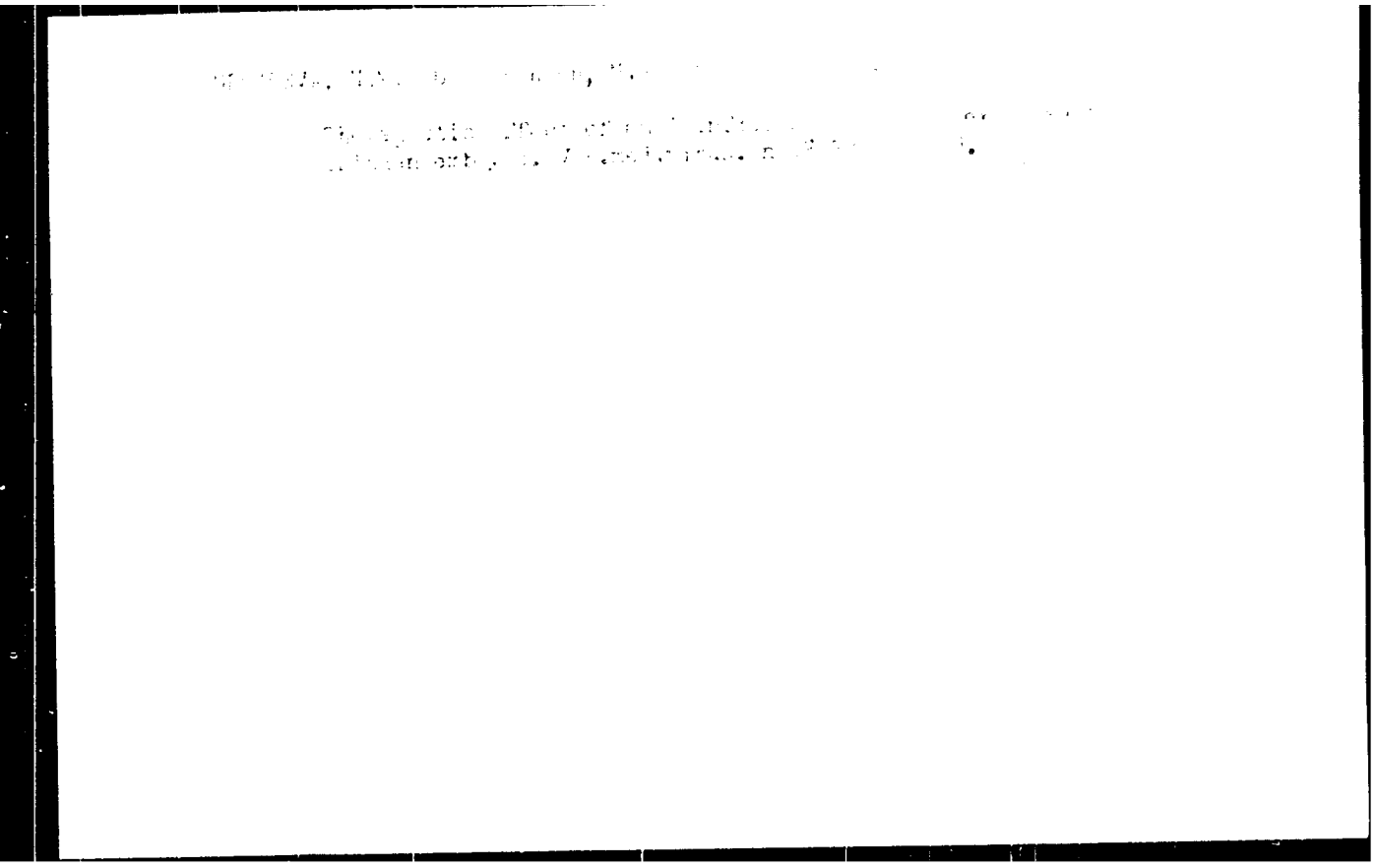
(INFLUENZA--MICROBIOLOGY)
(ANTIGENS AND ANTIBODIES)

KOSYAKOV, P.N.; GRUZDEVA, N.M.; BERDINSKIKH, M.S.

Therapeutic effect of specific antibodies and inhibitors in influenzal infection. Vop. virus. 8 no.3:301-307 My-Je'63. (MIRA 16:10)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva.
(INFLUENZA) (ANTIGENS AND ANTIBODIES)





KATYSHOV, P.N., POSEVAYA, T.A., BERDINSKIKH, M.S.

Suppression of the smallpox vaccine virus reproduction by a specific action on the cell. Vop. virus. 10 no.4 [illegible] Jl-Ag '65. (MIRA 18:8)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva.

BERDINSKIKH, M.S.

Antigens of human erythrocytes exposed to myxoviruses.
Vop. virus. 10 no.5:539-544 S-O '65.
(MIRA 18:11)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva.

BERDINSKIY, Aleksey Arkad'yevich

[Modernization of spinning equipment] Modernizatsiia priadil'nogo oborudovaniia. Ivanovo, Ivanovskoe knizhnoe izd-vo, 1959. 183 p. (MIRA 12:11)

(Spinning machinery)

BERLINSKII, I. S.

"N-Aryl amides of hydroxycarboxylic acids and their conversion to heterocyclic compounds. V. Intramolecular condensation of aryl amides of benzilic acid." P. A. Petyunin and I. S. Berlinskii. (p. 1703)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1951, Vol 21, No 9.

N-Aryl amides of hydroxy carboxylic acids and their transformation into heterocyclic compounds. VI. Structure of products of intramolecular condensation of 1- and 2-naphthalides of α-hydroxy carboxylic acids. P. A. Petyunin (Pharm. Inst., Moscow). *Zhur. Obshchei Khim.* (J. Gen. Chem.) 21, 1859-91 (1951); cf. *C.A.* 46, 2511h.—In the intramol. condensation of 1-naphthalides of α-HO carboxylic acids there are formed products of α,β-condensation unless the β-position is occupied, in which case peri-condensation occurs. The 2-naphthalides also yield α,β-condensation products, unless the α-position is occupied, in which case β,β-condensation takes place. Bromination of 2-$C_{10}H_7NHCOCO_2Et$ (I) in AcOH yields the *1-Br deriv.*, m. 99.5–100.5° (from EtOH), which, heated with 50% KOH, yields *1-bromo-2-naphthylamine*. I (3.2 g.) with $PhMgBr$ (from 9.4 g. PhBr) gave 60.3% *1,2-$BrC_{10}H_7NHCOC(OH)Ph_2$*, (II), m. 186° (from AcOH), also formed on bromination of 2-$C_{10}H_7NHCOC(OH)Ph_2$ in AcOH. II (3 g.) with 40 ml. AcOH and 20 ml. concd. H_2SO_4 gave 91.1% *3,3-diphenyl-7-bromo-3,6-benzoxindole* (9-bromo-1,3-diphenyl-1*H*-benz[*f*]indol-2(3*H*)-one), decomp. 283–5° (from AcOH). 1-$C_{10}H_7NHCOCO_2Et$ (2 g.) with 3 g. Br in 10 ml. pyridine gave after 4 hrs. 60.6% *Et (3,6-dibromo-1-naphthyl)oxamate*, m. 180° (from EtOH) (yields 2,4,1-$Br_2C_{10}H_5NH_2$ with 50% KOH), which with $PhMgBr$ gave 94% *3,6,1-$Br_3C_{10}H_5NHCOC(OH)Ph_2$*, m. 214.5° (from AcOH), and this with AcOH-H_2SO_4 gave 93.6% *7,9-dibromo-3,3-diphenyl-1*H*-benz[de]quinolin-2(3*H*)-one*, decomp. 246–7° (from AcOH). Bromination of 1-$C_{10}H_7NHCOCO_2Et$ in AcOH gave the 4-Br deriv., m. 138.5° (from EtOH), which with $PhMgBr$ gave *4,1-Br-$C_{10}H_5NHCOC(OH)Ph_2$*, m. 177° (from AcOH), and this with AcOH-H_2SO_4 gave 91% *3,3-diphenyl-5-bromo-6,7-benzoxindole*, m. 282° (from AcOH). Bromination of *3,3-diphenyl-β-naphthoxindole* in AcOH gave the *6-Br deriv.*, decomp. 205° (from AcOH). VII. **Intramolecular condensation of aryl amides of *p,p'*-dialkylglycolic acid.** P. A. Petyunin and I. S. Berdinskii. *Ibid.* 1859–67.—Refluxing 11.8 g. *m*-anisidine with 10 g. $(CO_2Et)_2$ 4 hrs. gave 8 g. *m-anisiloxamide*, m. 161° (from AcOH), and 12.7 g. *Et m-methoxyoxanilate* (I), m. 97° (from EtOH), which, heated with 10% NaOH, gave on acidification *m*-methoxyoxanilic acid, m. 168° (decomps.). I with alc. NH_3 gave 87.36% *amide*, m. 173.5° (from EtOH). I with 5 moles *p*-MeC$_6$H$_4$MgI gave 40% *α,α-di-p-tolyl-m-glycolanisidide*, m. 116° (from C_6H_6). *p*-EtOC$_6$H$_4$NHCOCO$_2$Et with 5 moles *p*-MeC$_6$H$_4$MgI gave 57% *α,α-di-p-tolyl-p-glycolphenetidide* (II), m. 118.5–16.5° (from EtOH), which (1 g.) with 7 ml. AcOH and 10 ml. concd. H_2SO_4 gave 94.8% *3,3-di-p-tolyl-5-ethoxyoxindole*, m. 262° (from AcOH). Similarly, *o*-MeOC$_6$H$_4$NHCOCO$_2$Et and *p*-MeC$_6$H$_4$MgBr gave 88% *α,α-di-p-tolyl-o-glycolanisidide*, m. 181.5–2.5° (from PhMe), which with AcOH and H_2SO_4 at 40° gave 100% *3,3-di-p-tolyl-7-methoxyoxindole*, m. 235° (from AcOH). *p*-MeC$_6$H$_4$COCO$_2$Et and *p*-MeC$_6$H$_4$MgBr gave 72% *α,α-di-p-tolyl-p-glycoltoluidide*, m. 131–3° (from dil. EtOH),

over

[illegible], I. S.

USSR/Chemistry - [illegible] Cat 11

"N-Arylamides of Hydroxynaphthoic Acids and Their Conversion Into Heterocyclic Compounds. VII. Intramolecular Condensation of Arylamides of p, p-Diethyldiglycolic Acid," P. A. Petrunin, I. S. Berdinskiy, Lab of Org Chem, Molotov Pharm Inst.

"Zhur Obshch Khim" Vol XXI, No 10, pp 1859-1867.

Worked out method for prepn of p-tolylimin and its homologs. Prepd number of amides not described in literature. Prepd number of arylamides of p, p-diethyldiglycolic acid and studied their properties. Studied effect of nature of radicals at the N and the C of the CONH group on rate of intramol condensation and dependence of optimum act of [illegible] condensation on reaction temp and structure of arylamides of 4-hydroxynaphthoic acids.

PA 19/T24

BERDINSKIY I. S. Nov. 51

"N-Arylamides of Hydroxycarboxylic Acids and Their Conversion Into Heterocyclic Compounds. VIII. Intramolecular Condensation of Arylamides of m, m- Ditolylglycolic Acid, "P. A. Petyunin, I. S. Berdinskiy, Lab of Org Chem, Molotov Phar Inst.

"Zhur Obshch Khim" Vol XXI, No 11, pp 2016 - 2018

Worked out method for prepn of m-tolylisatin and its derivs. Prepd number of compds not described in the literature. Prepd series of arylamides of m, m-ditolylglycolic acid and studied their properties.

PA 194T49

BERLINSKII, I. S.

"N-arylamides of hydroxycarboxylic acids and the conversion of them into heterocyclic compounds. IX. Intramolecular condensation of arylamides of m, m-dimethylglycollic acid." Petyunin, P. A. and Berdinskii, I. S. (p. 2019)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1951, Vol. 21, No 11.

PETYUNIN, P.A.; PANFEROVA, N.G.; BERDINSKIY, I.S.

N-Arylamides of hydroxy carboxylic acids and their transformation into heterocyclic compounds. XVIII. Connection between hydrolysis of arylamides of α-, β- and γ-hydroxycarboxylic acids and the ease of the closure of heterocycle from them. Zhur. Obshchey Khim. 22, 1677-9 '52. (MLRA 5:9) (CA 47 no.19:9941 '53)

BERDINSKIY, I. S

79-11-16/56

AUTHORS: Petyunin, P. A., Berdinskiy, I. S

TITLE: Reactions of Magnesylamines. II. Synthesis and Properties of the Arylamides of 9-Oxyfluorene-9-Carboxylic Acid (Reaktsii magnezilaminov. II. sintez i svoystva arilamidov 9-oksiflyuoren-9-karbonovoy kisloty)

PERIODICAL: Zhurnal Obshchey Khimii, 1957, Vol. 27, Nr 11, pp. 2999-3001 (USSR)

ABSTRACT: It is known that the interaction of aromatic amines with acids or compound esters belongs to the fundamental methods of the production of the arylamides of carboxylic acids, but they do not always yield positive results. Thus Liebig on heating of benzilic acid with aromatic amines instead of the expected arylamides of this acid only obtained a number of high-molecular compounds of unknown structure. The reaction between aniline and the ethyl ester of β, β-diphenyl-β-oxypropionic acid also took a negative course. In these cases the synthesis of the arylamides can be realized with the aid of magnesylamines. The authors had to perform the synthesis of arylamides of 9-oxyfluorene-9-carboxylic acid. As far as this acid like the above- mentioned ones possesses a movable hydroxyl group, the synthesis of their arylamides is made possible by the use of dimagnesylamines (see the scheme with three structure-for-

Card 1/2

Reactions of Magnesylamines. II. Synthesis and Properties of the Arylamides of 9-Oxyfluorene-9-Carboxylic Acid 79-11-11/35

mulae). The experiments showed that the arylamides are of a very weakly basic character so that they do not even give colored solutions in concentrated sulfuric acid. Thus a convenient method with respect to preparation was worked out for the production of arylamides of 9-oxyfluorene-9-carboxylic acid, and a number of hitherto unpublished arylamides was obtained. There are 6 references, 3 of which are Slavic.

ASSOCIATION: Perm' Pharmaceutical Institute
(Permskiy farmatsevticheskiy institut)

SUBMITTED: November 9, 1956

AVAILABLE: Library of Congress

1. Arylamides-Synthesis 2. Magnesylamines-Chemical reactions

Card 2/2

AUTHOR: Berdinskiy, I. S. 79-28-5-31/69

TITLE: Substituted Hydrazides of Oxycarboxylic Acids (Zameshchennyye gidrazidy oksikarbonovykh kislot) II. Synthesis of Arylhydrazides of Dialkylglycolic Acids (II Sintez arilgidrazidov dialkilglikolevykh kislot)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 5, pp. 1263 - 1265 (USSR)

ABSTRACT: In carrying out the method described in another paper (Reference 1) the conversion of ethylesters of the β-arylhydrazides of oxalic acid with magnesiumhalogenalkyls was dealt with. In this, compounds of the general composition Ar - NH - NH - CO- $-COOC_2H_5$ were used, where Ar = C_6H_5, n - BrC_6H_4 and β- $C_{10}H_7$; and RMgX, where R = C_2H_5, C_3H_7, iso- C_3H_7, C_4H_9, iso- C_5H_{11} and C_8H_{17}. The experiment carried out showed that the conversion takes place without difficulties. The arylhydrazides of dialkylglycolic acids are obtained in good yields. The structure formulae and the melting points of the compounds synthetized by the author are mentioned in the enclosed table. The syntheti-

Card 1/2

79-23-5-31/69

Substituted Hydrazides of Oxycarboxylic Acids. II. Synthesis of Arylhydrazides of Dialkylglycolic Acids

zed hydrazides are colorless crystalline compounds insoluble in water but soluble in organic solvents; the arylhydrazides of the acids with ramified radicals have higher melting points. The reaction between the magnesiumhalogenalkyls and esters of the β-arylhydrazides of oxalic acid can be generally proposed as preparative method for the synthesis of arylhydrazides of dialkylglycolic acids. Thus a series of compounds not mentioned in publications was synthetized and their properties were investigated. There are 1 table and 1 Soviet Reference.

ASSOCIATION: Permskiy farmatsevticheskiy institut (Perm' Pharmaceutical Institute)

SUBMITTED: April 29, 1957

Card 2/2

BERDINSKIY, I.S.; MITYANIN, V.P.

Synthesis of unsymmetrical diphenylhydrazides of carboxylic acids. Trudy Perm. farm. inst. no.1:159-161 '59. (MIRA 15:1)

1. Permskiy farmatsevticheskiy institut, kafedra organicheskoy i biologicheskoy khimii.

(HYDRAZIDES)

BERDINSKIY, I.S.

Substituted hydrazides of hydroxycarboxylic acids. Part 3: Monoacyl derivatives of aryl hydrazides of diaryl- and dialkylglycolic acids. Zhur.ob.khim. 30 no.6:2030-2032 Je '60. (MIRA 13:6)

1. Permskiy farmatsevticheskiy institut.
(Hydrazides) (Glycolic acid)

S/081/62/000/013/013/054
B158/B144

AUTHOR: Berdinskiy, I. S.

TITLE: Substituted hydrazides of hydroxycarboxylic acids. IV. Synthesis of asymmetric diphenylhydrazides of diaryl- and diallylglycolic acids

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 13, 1962, 214-215, abstract 13Zh145 (Uch. zap. Permsk. un-t, v. 19, no. [illegible], 1961, 63-65)

TEXT: Synthesis is carried out on a number of diphenylhydrazides of diaryl- and dialkylglycolic acids $(C_6H_5)_2NNHCOC(OH)R_2$ (Ia-i, where a R = o-$CH_3C_6H_4$, b R = m-$CH_3C_6H_4$, c R = p-$CH_3C_6H_4$, d R = o-$CH_3OC_6H_4$, e R = m-$CH_3OC_6H_4$, f R = C_2H_5, g R = C_3H_7, h R = C_4H_9, i R = iso-C_5H_{11}) by reacting $(C_6H_5)_2NNHCOCOOC_2H_5$ (II) with Grignard reagent by a well-known procedure (see RZC, no. 6, 1957, 19143). Ia, $C_{28}H_{25}O_2N_2$, m. p. 168°C (from alcohol), is produced at a yield of 69.9% by heating

Card 1/3

Substituted hydrazides of ... 3/081/62/000/013/013/054
B158/B144

Grignard reagent (17.1 g o-$CH_3C_6H_4Br$ and 2.4 g Mg) with 5.8 g II for 30 min on a water bath, with subsequent addition of dilute HCl and extraction with ether. The following I are obtained in a similar manner (the starting substance, its quantity in g, amounts of Mg and II in g, I, the empirical formula, yield %, m. p. in °C are given):
m-$BrC_6H_4CH_3$, 17.1, 2.4, 5.78, Ib, $C_{28}H_{26}O_2N_2$, 92, 146-148 (from alcohol);
p-$BrC_6H_4CH_3$, 12.8, 1.9, 4.26, Ic, $C_{28}H_{26}O_2N_2$, 85, 161-162 (from benzene);
o-$BrC_6H_4OCH_3$, 2.7, 0.5, 1.4, Id, $C_{28}H_{26}O_4N_2$, 96.4, 149-150 (from alcohol);
m-$BrC_6H_4OCH_3$, 11.7, 1.2, 2.8, Ie, $C_{28}H_{26}O_4N_2$, 79.2, 123-124 (from alcohol);
BrC_2H_5, 6, 1.2, 2.84, If, $C_{18}H_{22}O_2N_2$, 67.2, 176-177 (from benzene);
BrC_3H_7, 6.4, 1.2, 2.84, Ig, $C_{20}H_{26}O_2N_2$, 67.5, 144-145 (from alcohol);
BrC_4H_9, 2.3, 0.4, 0.9, Ih, $C_{22}H_{30}O_2N_2$, 88.5, 142-143 (from toluene);
iso-BrC_5H_{11}, 7.6, 1.2, 2.84, Ii $C_{24}H_{32}O_2N_2$, 70.7, 162-163 (from benzene).
II is produced by three methods: boiling an alcoholic solution of ethyl
Card 2/3

Substituted hydrazides of ... S/081/62/000/013/013/054
B158/B144

ether of β-phenylhydrazide of oxalic acid with $Cu(CH_3COO)_2$ (see F. Bölsing, J. Tafel, Ber., 1892, 25, 1553) with a yield of 31%; heating an alcoholic solution of diphenylhydrazine with diethyloxalate (see above reference), giving a yield of 35.6%; and adding (with cooling) 8.3 g of etnoxalyl chloride to a solution of 7.4 g diphenylhydrazine in pyridine, with subsequent dilution with water, giving a yield of 89.5%, m. p. 133-134°C (from alcohol). Communication III, see RZhKhim, 1961, 6Zh121. [Abstracter's note: Complete translation.]

Card 3/3

S/081/62/000/013/014/054
B158/B144

AUTHORS: Berdinskiy, I. S., Pshenichnova, N. R.

TITLE: Substituted hydrazides of hydroxycarboxylic acids. V. Antitubercular activity of arylhydrazides of diaralkylglycolic acids

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 13, 1962, 215, abstract 13Zh146 (Uch. zap. Permsk. un-t, v. 19, no. 1, 1961, 67-70)

TEXT: The antitubercular activity of a number of arylhydrazides of diaralkylglycolic acids $ArNHNHCOC(OH)R_2$ (I) was studied in vitro. I (Ar = p-BrC_6H_4, R = C_4H_9) and I (R = C_2H_5, C_4H_9, C_6H_5, p-$CH_3C_6H_4$, o-$CH_3OC_6H_4$) proved to be active. The activity is lost by acetylation and substitution of the C_6H_5 radical for $C_{10}H_7$ at the nitrogen. In vivo testing of I (Ar=C_6H_5, R = C_6H_5 and C_4H_9) showed that their antitubercular activity approaches that of isoniazid. For a study of the effect of substitution of the C_6H_5 aryl radical for $C_{10}H_7$ in I on the antitubercular

Card 1/2

Substituted hydrazides of ... S/081/62/000/013/014/054
B158/B144

activity, I (Ar = α-$C_{10}H_7$, R = p-$CH_3C_6H_4$) (Ia) and I (Ar = β-$C_{10}H_7$, R = p-$CH_3C_6H_4$) (Ib) were synthesized. 5.3 g of ethyl ether of α-naphthylhydrazide of oxalic acid (α-II) (m.p. 165°C (from alcohol), obtained at a yield of 36.9% from α-naphthylhydrazine and $(COOC_2H_5)_2$ in alcohol (see Freund, Hillrighaus, Ber., 1891, 24, 4182)) was added to Grignard reagent (21.1 g of p-$BrC_6H_4CH_3$ and 3 g of Mg); the mixture was heated for 30 min on a water bath, dilute HCl added and Ia, $C_{26}H_{24}O_2N_2$, obtained at a yield of 90%, m. p. 186-187°C (from alcohol).

Analogously, Ib, $C_{26}H_{24}O_2N_2$, yield 80%, m. p. 182-183°C (from toluene), was obtained from 4.6 g of β-II, 17.1 g of p-$BrC_6H_4CH_3$ and 2.4 g of Mg.

[Abstracter's note: Complete translation.]

Card 2/2

BERDINSKIY, I.S.; Prinimali uchastiye: TIKHONOVA, G.; SELITSEV, B.N.

Substituted hydrazides of hydroxycarboxylic acids.
Part 7: o-Tolylhydrazides of diaralkylglycolic acids.
Zhur.ob.khim. 32 no.11:3805-3807 N '62. (MIRA 15:11)

1. Permskiy gosudarstvennyy universitet imeni A.M. Gor'kogo.
(Glycolic acid) (Hydrazides)

BERDINSKIY, I.S.; YATSKOVA, I.D.

Substituted hydrazides of hydroxycarboxylic acids. Part 8: p-Tolylhydrazides of diaryl- and dialkyl glycolic acids. Zhur.ob.khim. 33 no.3:943-945 Mr '63. (MIRA 16:3)

1. Permskiy gosudarstvennyy universitet imeni A.M. Gor'kogo.
(Hydrazides)
(Glycolic acid)

BERDINSKIY, I.S.

Substituted hydrazides of hydroxycarboxylic acids. Part 6: Ultraviolet and infrared spectra of aryl hydrazides of diaralkyl glycolic acids. Zhur.ob.khim. 33 no.4:1214-1219 Ap '63. (MIRA 16:4)

1. Permskiy gosudarstvennyy universitet imeni A.M.Gor'kogo.
(Glycolic acid) (Hydrazides—Spectra)

BERDINSKIY, I.S.

Substituted hydrazides of hydroxycarboxylic acids. Part 9: Asymmetric phenylmethylhydrazides of diaralkyl glycolic acids. Zhur.ob.khim. 33 no.4:1219-1222 Ap '63. (MIRA 16:5)

1. Permskiy gosudarstvennyy universitet imeni A.M.Gor'kogo.
(Glycolic acid) (Hydrazides)

BERDINSKIY, I.S.; VILENCHIK, Ya.M.

Substituted hydrazides of hydroxycarboxylic acids. Part 12: Symmetric diphenylhydrazides of diaryl and dialkyl glycolic acids. Zhur.ob.khim. 33 no.7:2313-2315 Jl '63. (MIRA 16:8)

1. Permskiy gosudarstvennyy universitet imeni A.M.Gor'kogo.
(Hydrazides) (Glycolic acid)

BERDINSKIY, I.S.

Substituted hydrazides of hydroxycarboxylic acids. Part 13: Nonsymmetrical dibenzylhydrazides of diaryl- and dialkyl glycolic acids. Zhur.ob.khim. 34 no.2:421-423 F '64. (MIRA 17:3)

1. Permskiy gosudarstvennyy universitet im. A.M.Gor'kogo.

BERDINSKIY, I.S.

Substituted hydrazides of hydroxycarboxylic acids. Part 14: Acyl derivatives of basic nature of phenylhydrazides of diaryl- and dialkyl glycolic acids. Zhur. ob. khim. 34 no. 3:762-767 Mr '64. (MIRA 17:6)

1. Permskiy gosudarstvennyy universitet imeni A.M.Gor'kogo.

BERDINSKIY, I. S.

Substituted hydrazides of hydroxycarboxylic acids. Part 15: Reaction of α-thienylmagnesium iodide with aryl hydrazide oxalates. Zhur. ob. Khim. 34 no.6:1773-1777 Je '64.

Substituted hydrazides of hydroxycarboxylic acids. Part 16: Phenylhydrazides of α-aryl-α-(2-thienyl)- and α-alkyl-α-(2 thienyl) glycolic acids. Zhur. ob. Khim. 34 no.6:1777-1779 Je '64. (MIRA 17:7)

1. Permskiy gosudarstvennyy universitet imeni A. M. Gor'kogo.

BERDINSKIY, I.S.; VILENCHIK, Ya.M.

Substituted hydrazides of hydroxycarboxylic acids. Part 17: Benzidine rearrangement of symmetrical diphenylhydrazides of diaryl - and dialkylglycolic acids. Zhur. ob. khim. 34 no.8: 2526-2529 Ag '64. (MIRA 17:9)

1. Permskiy gosudarstvennyy universitet imeni A.M. Gor'kogo.

BERDINSKIY, I.S.; VILENCHIK, Ya.M.

Substituted hydrazides of hydroxycarboxylic acids. Part 18: Symmetrical di(o-tolyl)hydrazides of diaryl- and dialkyl glycolic acids. Zhur. ob. khim. 34 no.9:3045-3046 S '64. (MIRA 17:11)

1. Permskiy gosudarstvennyy universitet im. A.M. Gor'kogo.

BERDINSKIY, I.S.; VILENCHIK, Ya.M.

Substituted hydrazides of hydroxycarboxylic acids. Part 19: Symmetrical di(p-tolyl) hydrazides of diaryl and dialkylglycolic acids. Zhur.org.khim. 1 no.2:331-333 F '65. (MIRA 18:4)

1. Permskiy gosudarstvennyy universitet im. A.M.Gor'kogo.

BERDINSKIY, I.S.; USTYUZHANINOV, I.A.; GORELYSHEVA, I.N.

Substituted hydrazides of hydroxycarboxylic acids. Part 20: Alkylation of phenylhydrazides of diaryl and dialkyl glycolic acids. Zhur.org.khim. 1 no.3:454-457 Mr '65.

(MIRA 18:4)

1. Permskiy gosudarstvennyy universitet im. A.M.Gor'kogo.

BERDINSKIY, I.S.; KOSTAREVA, N.A.

Substituted hydrazides of hydroxycarboxylic acids. Part 22: Halochromism of arylhydrazides of diarylglycolic acids.
Zhur. obs. khim. 35 no.5:876-879 My '65. (MIRA 18:6)

1. Permskiy gosudarstvennyy universitet imeni Gor'kogo.

BERDINSKIY, I.S.; ORLOVA, L.D.; SAMOYLOVSKIKH, N.A.

Substituted hydroxycarboxylic acid hydrazides. Part 24: Diaryl and dialkylglycolic acid 3,4-dimethylphenylhydrazides. Zhur. org. khim. 1 no.7:1222-1225 Jl '65. (MIRA 18:11)

1. Permskiy gosudarstvennyy universitet imeni A.M.Gor'kogo.

MAL'TSEV, A.V.; BERDINSKIY, V.F.

Temperature dependence of the dielectric permeability of mica-muscovite at frequencies ranging from 50 cps. to 1 Mc. Uch.zap. Fed.inst.Gerts.no.207:219-226 '61. (MIRA 16:5)

1. Omskiy gosudarstvennyy pedagogicheskiy institut imeni A.M. Gor'kogo.

(Muscovite) (Dielectric constant.)

BERDIYEV, E.

The Karakum Canal and the agriculture of Turkmenistan. Nauch. zap. Ver. otd. Geog. ob-va 129-135 '63. (MIRA 17:9)

BERDKLYCHEV, M.O.

Spas and health resorts in Turkmeniia. Sovet med. 16 no.4:37-40 Apr 1952. (CIML 22:1)

1. Candidate Medical Sciences. 2. Ashkhabad.

CZECHOSLOVAKIA / Virology. Viruses of Man and Animals. Chlamydozoa. E-2

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 99181

Author : Strauss, J.; Berdnar, B.; Sery, V.
Inst : Not given
Title : The Finding of Ornithosis and Salmonellosis in the Black-headed Sea Gull (Larus Ridibundus L.)

Orig Pub : Zh. Gigiyeny epidyemiol., mikrobiol. i immunol. (Chekhosl.), 1957, 1, No 2, 203

Abstract : No abstract given

Card 1/1

KOTEL'NIKOV, I.V.; BERDNIK, A.A.

Increasing the durability of hot blast air ducts in blast furnaces.
Metallurg 9 no.4:13 Ap '64. (MIRA 17:9)

1. Zhdanovskiy metallurgicheskiy zavod imeni Il'icha.

LAVRENT'YEV, M.L.; BERDNIK, A.A.

Pulsation of the flame of air-heating burners. Metallurg 6 no.8:6-7 Ag '61. (MIRA 14:8)

1. Zhdanovskiy zavod im. Il'icha.
(Air preheaters) (Blast furnaces)

BELYAYEV, Yu.P.; MOISEYEV, Yu.G.; LITVINENKO, V.I.; BERDNIK, A.A.

Radiometric investigation of the resistance of a blast furnace hearth bottom. Met. i gornorud. prom. no.2:11-14 Mr-Ap '65. (MIRA 18:5)

Berdnik, I.V.

COUNTRY	:	USSR
CATEGORY	:	Cultivated Plants. General Problems. M
ABS. JOUR.	:	RZhBiol., No. 3, 1959, No. 10899
AUTHOR	:	Lavrenko, A. T., Seva, M. S., Oleynik, K. I., Zhmatiy,*)
INST.	:	Odessa Agricultural Institute.
TITLE	:	Reports on Production Experiments (in a Number of Kolkhozes of Odessa, Zaporozhskaya, Nikolayevskaya, Kirovogradskaya, Zakarpatskaya and Cherkasskaya Oblasts).
ORIG. PUB.	:	Tr. Odessk. s.-kh. in-ta, 1958, 13, 137-145.
ABSTRACT	:	No abstract.

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S/081/62/000/002/060/107
B156/B101

11.1160

AUTHOR: Berdnikov, A. I.

TITLE: The production of fuming nitric acid and SO_2-free ammonia

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 2, 1962, 328, abstract 2K54 (Gigiyena i sanitariya, no. 6, 1961, 7-11)

TEXT: A laboratory method of producing fuming HNO_3 has been developed: a mixture of chemically pure HNO_3 (spec. g. 1.365) and H_2SO_4 (spec. g. 1.84), with a 40 % excess of HNO_3, is heated to 130-135°C; fuming HNO_3 (spec. g. 1.515) is distilled off, the yield being ~185 ml from 500 g of HNO_3 (spec. g. 1.365). HNO_3 with a specific gravity of 1.48 can also be produced. To regenerate the H_2SO_4 the remaining HNO_3 is distilled from the mixture into another flask; to do this, the temperature is raised to 285-290°C and distillation continued until white SO_3 vapors appear; the H_2SO_4 is considered to be fully regenerated when it has passed diphenyl-

Card 1/2

The production of fuming nitric... S/081/62/000/002/060/107
B156/B101

amine testing for HNO_3. Instructions are given on eliminating certain difficulties caused when distilled water is saturated with CO_2-free ammonia [Abstracter's note: Complete translation]

Card 2/2