MERZHEYEVSKAYA, O.I

Age changes in the larval phase of Phytometra gamma L.
Zool. zhur. 41 no.9:1423-1425 S '62. (MIRA 15:11)

1. Department of Zoology, Academy of Sciences of the Belorussian S.S.R., Minsk.
(Owlet moths) (Larvae--Insects)

MERZHEYEVSKAYA, O.I.; GERASTEVICH, Ye.A.

A method of collecting live insects by light. Zool.zhur. 41 no.11:1741-1743 N '62. (MIRA 16:1)

1. Department of Zoology, Academy of Sciences of the Belorussian S.S.R., Minsk.

(Insect traps)

[illegible], red.; [illegible], red.; [illegible], red.

[Abstract] [illegible]

MERZHEYEVSKAYA, O.I. [Merzhaeuskaia, O.I.]

Owlet moths of White Russia. Vestsi AN BSSR. Ser. biial. nav. no.4:127-129 '62. (MIRA 17:8)

MERZHEYEVSKAYA, O.I. [Merzhyeuskaia, V.I.]; KHOT'KO, E.I. [Khats'ko, E.I.]; KUNDAKOVA, S.V.; MOLCHANOVA, R.V. [Malchanava, R.V.]

Feeding habits of Agrotis segetum Schiff and Agrotis exclamationis L. Vestsi AN BSSR. Ser. biial. nav. no.4:121-129 '64. (MIRA 18:12)

MELICHNAYA, V.I.

New fixator for caterpillars. Zool. zhur. [illegible]
(MIRA [illegible])

1. [illegible]

GORENSHTEYN, I.V., kandidat tekhnicheskikh nauk; ITSKHAKIN, V.I., inzhener; MERZHEYEVSKIY, A.I., kandidat tekhnicheskikh nauk.

Delay cables. Vest. elektroprom. 28 no.4:21-24 Ap '57.
(MLRA 10:6)

1. Leningradskiy filial Nauchno-issledovatel'skogo instituta kabel'noy promyshlennosti.
(Electric cables) (Pulse techniques (Electronics))

MERZHEYEVSKIY, A.I.

Remote cup anemometer with a high-frequency transmitter.
Trudy Len. gidromet. inst. no.15 150-152 '63.
(MIRA 17:1)

MERZHEYEVSKIY, V.A.

Equivalent circuit for connecting a control transformer in the transformer group of a double-bridge rectifier. Izv. NIIPT no.9: 108-121 '62. (MIRA 15:12)

(Electric current converters)

MOISEYEVA, N.V.; MERZLIKINA, M.N.

Rapid method of determination of β-phenylethyl alcohol in technical raw β-phenylethyl. Zav.lab. 29 no.12:1437 '63. (MIRA 17:1)

[redacted]

USSR / Cultivated Plants. Potatoes, Vegetables, Melons. M-2

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6266

Author : Palienko, T. S.; Merzhvinskaya, I. M.; Korbut, G. A.

Inst : Not given

Title : The Effect of Various Methods of Applying Manure and Mineral Fertilizers on the Yield of Potatoes

Orig Pub : Udobreniye i urozhay, 1958, No 5, 19-21

Abstract : The application of $N_{30}P_{45}K_{60}$ kg/ha in holes during the course of potato sowing in experiments carried out in 1955-1956 increased the yield of tubers by 2.2 and 3.5 t/ha, respectively, in comparison with broadcasting the same fertilizers. The addition to $N_{30}P_{45}K_{60}$ kg/ha of 5 t/ha of manure during the same

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Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6266

experiments and of 3 and 6 t/ha in the experiment conducted in 1954, when localized fertilization was practiced, had no effect on the yield. The addition of 20 t/ha of manure to the mixture $N_{30}P_{45}K_{60}$, placed by broadcasting increased the yield by 20%. The addition of 3 - 6 t/ha of manure had no effect on the yield. Hole placement of the VASKhNIL mixture (All-Union Agricultural Institute im. Lenin) during sowing (3 t of manure, 3 cwt of P_c and 3 cwt of lime) and of a mixture enriched with K_{60} produced an increase in the yield of potatoes of 2.9 and 11.9 cwt/ha, respectively (control: 158.6 cwt/ha). Mineral fertilizers somewhat diminished the starch content in the tubers. The experiments were carried out on

USSR / Cultivated Plants. Potatoes, Vegetables, Melons. M-2

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6266

leached-out chernozem containing little humus and turf-podzolic soils in Zhitomirskaya Oblast'. -- V. V. Prokoshev

KORETSKIY, L.M., kandidat ekonomicheskikh nauk; MEERZHVINSKAYA, L.K.

New wall map representing the economic geography of the Ukraine and the Moldavian S.S.R. used in secondary schools. Geod. i kart. no.3: 54-57 My '56. (MLRA 9:10)
(Ukraine--Economic geography) (Moldavia--Economic geography)

24(8) SOV/54-59-1-5/25

AUTHOR: Merzhvinskaya O V

TITLE: On the Problem of the Determination of Temperature Difference Between the Water and Air Surface During the Formation of Evaporation Mist (K voprosu ob opredelenii raznosti temperatur poverkhnosti vody i vozdukha pri obrazovanii tumanov isparenıya)

PERIODICAL: Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1959, Nr 1, pp 43-58 (USSR)

ABSTRACT: In this paper the author gives the results of a laboratory experiment concerning the conditions which lead to the formation of mist in cold air that is touched by a warmer humid surface. Such mist is observed in nature usually in winter over the sea. An investigation of the formation of evaporation mist is therefore of great practical importance to their forecast and dispersion. Publications do not agree as to the temperature difference between air and water and the atmospheric humidity content which leads to the formation of mist (Refs 1-8). Consequently the author determined a relationship between the atmospheric temperature t_{air} and the water temperature t_{water} in the formation of fog with dif

Card 1/3

On the Problem of the Determination of Temperature Difference Between the Water and Air Surface During the Formation of Evaporation Mist

ferent humidity content (h%) of the air passing over the water The data obtained were compared with the results of theoretical computations. The experiments were made in two chambers (Figs 1 2), first in chamber ' without taking into account the flow of air. The humidity content of mist i e. its transparence was determined by means of a photocell. Further, the microstructure i e. the distribution of drops in dependence on their radii was determined by Khrgian's and Mazin's formula (Ref 14) It results that the drops are distributed in a homogeneous manner, being very small in the formation of mist The measurements were taken at the minimum temperature differences t_{air} t_{water} which already cause formation of mist. The results are contained in table 3 The theoretical calculation was made with the assumption of a thin air layer with the temperature of water and a humidity content of 100% immediately above the water surface and the air passing over it that mixes with the thin air layer. The experimental results agree well with thermodynamic calculations of the temperature difference between water and air on this

SOV/54 59-1 5/25

On the Problem of the Determination of Temperature Difference Between the Water and Air Surface During the Formation of Evaporation Mist

assumption. Further the author investigated the influence exercised by the velocity at which the air passes over the water. The data obtained are listed in table 3. It results that for stronger wind intensities in nature the minimum temperature difference between water and air at which mist is formed must be higher than in the case of calm air above the water level. The author thanks B. V. Kiryukhin for supervision of the investigation. There are 2 figures, 3 tables and 21 references, 19 of which are Soviet.

SUBMITTED: June 10, 1958

Card 3/3

MEDZIVINSKAYA, O. V., Cand Phys-Math Sci (diss) - "A study of [illegible] conditions of formation of evaporation fogs". Leningrad, 1960. 11 pp (Leningrad Order of Lenin State U im A. A. Zhdanov), 220 copies (KL, No 14, 1960, 120)

MERZHVINSKAYA, Ye.

First class machines for agriculture. Sov.profsoiuzy 3 no.3:29-32 Mr '55. (MIRA 8:4)

1. Chlen mestnogo komiteta profsoyuza Vsesoyuznogo nauchno-issledovatel'skogo instituta sel'skokhozyaystvennogo mashinostroyeniya (VISKhOM)
(Agricultural machinery)

MERZHVINSKAYA, Ye.P.; GLADSHTEYN, D.S.

The SPN-0,5 and SPN-0,1 mounted hoist booms. Biul.tekh.-ekon. inform. no.11:71-73 '58. (MIRA 11:12)
(Hoisting machinery)

MEHZHVINSKAYA, Ye.P.; BORISOV, A.M.

The TU-5 universal conveying machine. Biul.tekh.-ekon.inform. no.12:56-57 '58. (MIRA 11:12)
(Conveying machinery)

MERZHVINSKAYA, Ye.P.; BUNINA, M.K.

The PShP-10 mobile worm loader. Biul.tekh.-ekon.inform. no.12: 57-58 '58. (MIRA 11:12)
(Conveying machinery)

MERZHVINSKAYA, Ya.P.; SOROKINA, A.A.

The LNN-0,5 mounted power shovel. Biul.tekh.-ekon.inform. no.12:58-59 '58. (MIRA 11:12)
(Agricultural machinery)

MERZHVINSKAY, Ye.P.; RYBKINA, A.A.; STUPA, N.D.

Types of tractor-driven transportation machinery for 1959-1965.
Trakt. i sel'khozmash. 31 no.11:15-17 N '61. (MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo mashinostroyeniya.
(Tractors--Design and construction)

BORISOV, A.M.; MERZHVINSKAYA, Ye.P.; FATEYEV, M.N.

Types of loaders of continuous action for agriculture. Trakt. i sel'khozmash. 33 no.6:35-38 Je '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo mashinostroyeniya.
(Loading and unloading)
(Agricultural machinery)

MERZLENKO, V. YA.

6921. Merzlenko, V. Ya. Vodomery iz plastmassy konstruktsii Rostovskogo instituta AKKh. (M.), 1954. 8s. s chert. 20sm. (Akad. kommun. khozyaystva im. K. D. Pamfilova. Inform. Pis'mo. 12/51). 400 ekz. Bespl. -- Avt. ukazan na 1-y s. --(55-342zh)
628.15+681.121

SO: Knizhnaya Letopis' No. 6, 1955

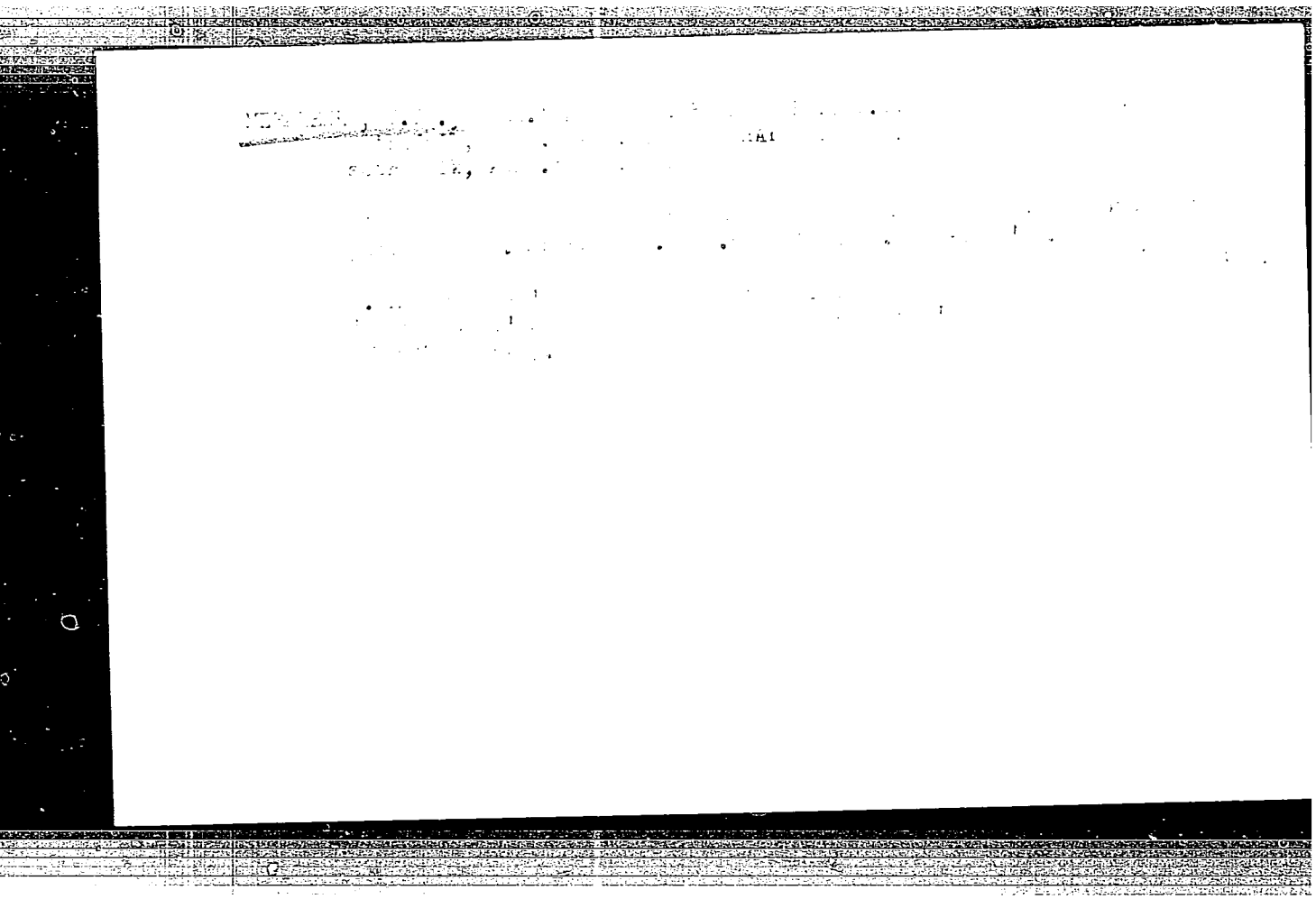
MERZLENKO, V.Ya.; KULZHINSKIY, V.I.; MIKHAYLOV, V.A.; KOGAN, A.S., kand. tekhn.nauk, nauchnyy red.; BOTOVA, Yu.M., red.

[Multilayer filters] Mnogosloinye fil'try. 1960. 6 p. (Akademiia kommunal'nogo khoziastva. Informatsionnoe pis'mo, no.1). (MIRA 14:1)

(Water—Purification) (Filters and filtration)

MERZLENKO, V.Ya.

New designs of slide-valves for water supply mains. Nauch. trudy AKKH no.22:154-157 '63. (MIRA 18:5)



BURSHTAR, M.S.; MERZLENKO, Yu.F.

Results of geological prospecting in the Kuma Valley and prospects for its development. Geol.nefti i gaza 3 no.11: 13-19 N '59. (MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologo-razvedochnyy neftyanoy institut i Stavropol'skoye neftepromyslovoye upravleniye.
(Kuma Valley--Prospecting)

VASIL'YEV, V.G.; MERZLENKO, Yu.E.; MATSKEVICH, N.M.; ZHIVAGO, N.V.; LI CHZHAO-ZHEN' [Li Chao-Jên]; GOLYAKOV, V.A.; SHABATIN, I.V.; BORISENKO, Ye.M.; MIROSHNIKOV, M.V.; USPENSKAYA, N.Yu.; KHEL'KVIST, V.G.; GRATSIANOVA, O.P.; BUDNIKOV, N.B.; BELOV, K.A.; MAKSIMOV, S.P.

Discussion. Trudy VNIGNI no.32:282-336 '60. (MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo gaza (for Vasil'yev, Zhivago, Khel'kvist). 2. Nefteromyslovoye upravleniye Stavropol'neft' (for Merzlenko). 3. Groznenskiy nauchnoissledovatel'skiy neftyanoy institut (for Matskevich). 4. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. I.M. Gubkina (for Li Chzhao-zhen', Uspenskaya). 5. Stavropol'skiy filial Groznenskogo nauchnoissledovatel'skogo neftyanogo instituta (for Golyakov, Shabatin, Borisenko, Miroshnikov). 6. Ministerstvo geologii i okhrany nedr SSSR (for Gratsianova, Budnikov). 7. Glavnyy geolog neftyanogo i gazovogo upravleniya Stavropol'skogo sovnarkhoza (for Belov).

(Caucasus, Northern--Petroleum geology)
(Caucasus, Northern--Gas, Natural--Geology)

17

L 24211-65 EWT(m)/EPF(c)/EPF(n)-2/EPR Pr-4/Ps-4/Pu-4 IH

ACCESSION NR: AP5001266 S/0089/64/017/006/0448/0452

42
B

AUTHOR: Siney, N. M.; Krasin, A. K.; Bychkov, I. F.; Blokhin, O. I.; Broder, D. L.; Gabrusev, V. N.; Dudnikov, Yu. V.; Zhil'tsov, V. A.; Koptev, M. A.; Kotov, A. P.; Lantsov, M. N.; Lisochkin, G. A.; Merzlikin, G. A.; Morozov, I. G.; Komarov, A. Ya. (deceased); Orekhov, Yu. I.; Sergeyev, Yu. A.; Slyusarev, P. N.; Ushakov, G. N.; Fedorov, N. V.; Chernyy, V. Ya.; Shmelev, V. M.

TITLE: Small-size atomic electric power installation TES-3

19

SOURCE: Atomnaya energiya, v. 17, no. 6, 1964, 448-452

TOPIC TAGS: small atomic power installation, portable atomic power installation, nuclear reactor, electric power generation/TES-3 reactor

ABSTRACT: The paper is a summary of the SSSR report #310 at the Third International Conference on Peaceful Uses of Atomic Energy in Geneva, 1964. It describes a movable small-size atomic electric power installation with the water cooled and moderated TES-3 reactor (under 10,000 kw). It consists of four

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ACCESSION NR: AP5001266

blocks each of which was assembled at the manufacturing plant, and which are placed on four self-propelled flatcars on caterpillar tracks. No housing is required for the installation; the only local preparation needed is the radiation protection. The results with a demonstration model show a satisfactory agreement between the theoretically expected and actually obtained parameters of the installation. Orig. art. has: 4 figures

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00 SUB CODE: NP

NR REF SOV: 000 OTHER: 000

Card 2/2

MERZLIKIN, G.S.

Chronic aseptic experimental atelectasis of the lungs. Trudy LPMI 31 no.2[illegible]-420 '63. (MIRA 17:10)

1. Iz kafedry gospital'noy khirurgii Leningradskogo pediatricheskogo meditsinskogo instituta.

MERZLIKIN, G.S.

Respiratory function of the lung following prolonged aseptic atelectases; experimental study. Vest. khir. no.10:48-50 '64. (MIRA 19:1)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. M.S. Grigor'yev) i kafedry operativnoy khirurgii i topograficheskoy anatomii (zav. - prof. Ye.M. Margorin) Leningradskogo pediatricheskogo meditsinskogo instituta (rektor - dotsent Ye.I. Semenova).

PUCHKOVA, S.M.; MESHALKIN, G.S.

Accumulation of Sr^{90} in the bones of rats in relation to the different physicochemical states of the isotope in milk. Med. rad. 10 no.11:76-78 N '65. (MIA 19:1)

1. Submitted July 10, 1964.

SOV/27-59-2-8/30

22 (1)
AUTHOR: Merzlikin, N., School Director, and Tatarnikov, Yu., Foreman-Instructor

TITLE: The Way is Open for Electric Locomotives
(Otkryt put' elektrovozam)

PERIODICAL: Professional'no-tekhnicheskoye obrazovaniye, 1959, Nr 2, p 13 (USSR)

ABSTRACT: The teaching staff of the Sasovo Railroad School Nr 2 welcomed the suggestion of the Ryazanskoye oblastnoye upravleniye trudovykh rezervov (Ryazan' Oblast' Administration of Labor Reserves) to start training in a vocation which is new to the school overhead network electricians. The author describes what preparations were made for this project, how the foremen-instructors were chosen and trained. He further mentions that the workshops were supplied with visual aids and explains in general how the training of overhead network electricians has been organized. There are 2 photographs.

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The Way is Open for Electric Locomotives SOV/27-59-2-8/30

ASSOCIATION: Sasovskoye zheleznodorozhnoye uchilishche Nr 2 Ryazanskoy oblasti (Sasovo Railroad School Nr 2, Ryazan Oblast').

Card 2/2

Spray d
'65.

L. Volg

MERZLIKIN, V. (g. Riga)

Work with the active members of the physical culture group.
Grazhd.av. 13 no.2:14-15 F '56. (MLRA 9:5)
(Physical education and training)

MERZLIKIN, V.A. 4

36950
S/142/61/004/006/015/017
E192/E382

9.2585

AUTHORS: Bolotin, L.I., Volkov, V.I., Lesnykh, M.S., Lyapkalo, Yu.M., Merzlikin, V.A., Pipa, A.V., Sidorenko, I.S. and Cherovak, L.L.

TITLE: A high-power pulsed oscillator

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, v. 4, no. 6, 1961, 726 - 728

TEXT: Generation of high-power bursts of ultrashort-wave frequencies is of importance in linear accelerators of heavy particles. A pulsed oscillator based on the triode, type ГИ-4А (GI-4A), was therefore developed. Constructionally, the oscillator is based on coaxial tuned circuits, in which the tube operates as a grounded-grid system (Ref. 1 - M.S. Neyman - Triode and tetrode generators for UHF (Triodnyye i tetrodnyye generatory SVCh), Sovetskoye radio, 1950). The anode-grid resonant circuit is in the form of a quarter-wave line, terminated with the interelectrode capacitance Cag (Fig. 1). Since the external diameter D = 33 cm, internal diameter d = 14 cm and Cag = 35 pF, the resonance frequency is 142 Mc/s and the length h of the anode grid-tuned circuit is 19 cm;

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S/142/61/004/006/015/017
E192/2382

A high-temperature ....

these calculated data were verified experimentlly. The cathode-grid circuit is in the form of a short-circuited polycylindrical coaxial section of a half-wave line; this is terminated with the capacitance Cag . The feedback is provided by three non-adjustable loops positioned at angles of 120° with respect to each other, in such a manner that the loops pass through the common wall of the resonators. The separator condenser in the anod-grid circuit consists of six groups of condensers, each consisting of two condensers in series. The oscillator was tested with an 82-Ω resistive load, which was in the form of a polystyrol cylinder with a water solution of sodium carbonate. It was possible to obtain a maximum power of 1.2 MW with an anode voltage of 32 kV and pulse duration of 450 μs. The oscillator was also tested with a high-Q load formed by the resonator of a linear proton accelerator; this had a resonance frequency of 142 Mc/s and a quality factor of 50 000. It was found that at an anode voltage of 36 kV the resonator of the accelerator received a power of the order of 500 kW, so that the protons could be accelerated up to energies

Card 2/3

4

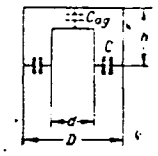
A high-temperature ....

of 5.5 MeV. There are 4 figures.

ASSOCIATION: Uchenyy sovet FTI AN UkrSSR
(Learned Council of FTI AS UkrSSR)

SUBMITTED: April 28, 1961

Fig. 1:



Card 3/3

MERZLIKINA, T.I.

Biology of the florescence of the Japanese spindle tree (Evonymus japonica Thunb.). Biul.Glav.bot.sada no.19:135-137 '54. (MLRA 8:2)

1. Nauchno-issledovatel'skaya opytnaya stantsiya subtropicheskogo lesnogo i lesoparkovogo khozyaystva.
(Spindle trees)

MERZLIKINA, T.I.

Method of hot extraction. Biokhimiia 20 no.1:47-49 Ja-F '55. (MIRA 8:5)

1. Biolaboratoriya Sochinskoy nauchno-issledovatel'skoy stantsii subtropicheskogo lesnogo i lesoparkovogo khozyaystva.
(CHEMICAL ANALYSIS,
hot extraction technic)

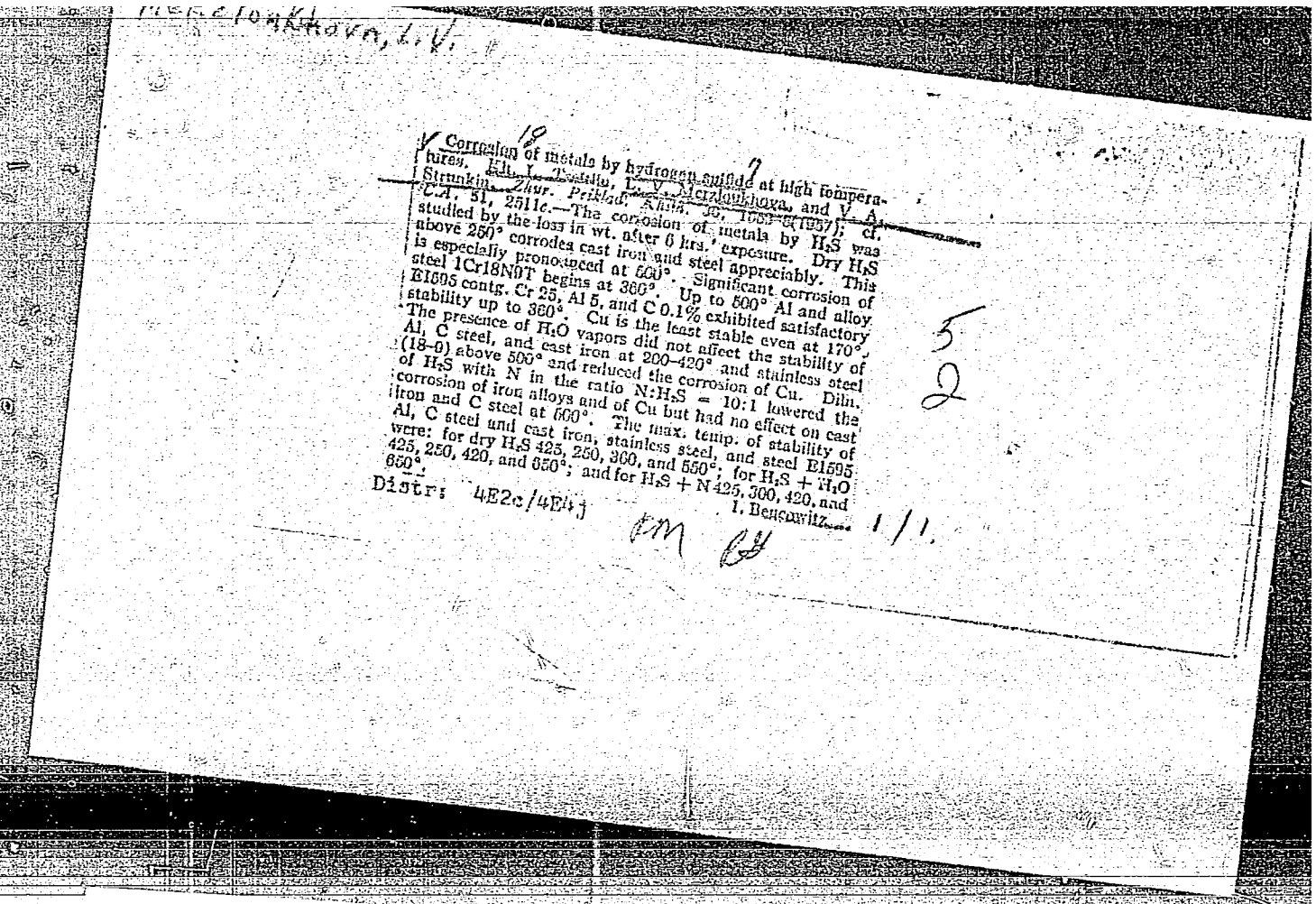
Sci. Res. Exptl. Sta. of Subtropical Forestry and Forest Park Ind., Sochi

An improvement over the soxhlet extn. app. is described designed specially for the extn of difficulty sol. fatty substances

MERZLIKINA, T.I.

Introduction of economically valuable forms of sweet chestnut in forests on the Black Sea coast of the Caucasus. Trudy Bot. inst.Ser.6 no.7:167-168 '59. (MIRA 13:4)

1. Sochinskaya nauchno-issledovatel'skaya opytnaya stantsiya subtropicheskogo lesnogo i lesoparkovogo khozyaystva.
(Black Sea region--Chestnut)



Merzlyakhova, L. V.

18

Corrosion of metals by hydrogen sulfide at high temperatures. Kh. L. Tseitlin, L. V. Merzloukhova, and V. A. Strunkin. *Zhur. Prikład. Khim.* 30, 1052–6(1957); cf. *C.A.* 51, 2511c.—The corrosion of metals by H_2S was studied by the loss in wt. after 6 hrs.' exposure. Dry H_2S above 250° corrodes cast iron and steel appreciably. This is especially pronounced at 600°. Significant corrosion of steel 1Cr18N9T begins at 360°. Up to 500° Al and alloy EI695 contg. Cr 25, Al 5, and C 0.1% exhibited satisfactory stability up to 360°. Cu is the least stable even at 170°. The presence of H_2O vapors did not affect the stability of Al, C steel, and cast iron at 200–420° and stainless steel (18–9) above 500° and reduced the corrosion of Cu. Dil. of H_2S with N in the ratio $N:H_2S$ = 10:1 lowered the corrosion of iron alloys and of Cu but had no effect on cast iron and C steel at 600°. The max. temp. of stability of Al, C steel and cast iron, stainless steel, and steel EI595 were: for dry H_2S 425, 250, 360, and 550°; for $H_2S + H_2O$ 425, 250, 420, and 650°; and for $H_2S + N$ 425, 300, 420, and 650°.

Distr: 4E2c/4E4j

I. Beneowitz

5
2

1/1

AUTHORS: Tseytlin, Kh. L., Sel'tser, A. S., Zemlyanitskaya, N. N., Strunkin, V. A., Merzloukhova, L. V.

SOV/32-24-7-54/65

TITLE: Corrosion Determinations in Ampoules (Korrozionnyye opredeleniya v ampulakh)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 7, pp. 898 - 899 (USSR)

ABSTRACT: Of late glass ampoules are used for corrosion investigations of steel; the former make it possible to carry out several experiments at the same time, which fact is especially favorable in the case of small sample quantities, and in the determinations of rare metals, as well as of expensive and dangerous reagents. In the laboratory mentioned below an apparatus was constructed on this basis, which serves for the determinations of chemically resistive, rare metals in hydrochloric acid. The apparatus consists of a heatable steel drum with a steeltube grid into which eight steel shells for the glass ampoules are put. 40 ml liquid and two samples each were put into each ampoule; then they were put in a sealed state into the apparatus which was rotated by a reducing gear. After the experiment the ampoules are broken up. Corrosion experiments with tantalum in hydrochloric acid

Card 1/2

Corrosion Determinations in Ampoules

SOV/32-24-7-54/65

or in hydrochloric acid saturated with chlorine, or in HCl with an addition of hydrogen peroxide were carried out at 100 - 110°. On this occasion a corrosion rate of less than 0,005 g/m^2.hour was found. Thick-walled ampoules were also used for the determinations of nickel, copper, aluminium and other metals in molten $AlCl_3$ at 200°. The experiments with this apparatus must be carried out taking into account all precautionary methods known in the technique. There are 2 figures.

ASSOCIATION: Institut organicheskikh poluproduktov i krasitelej im.K.Ye Voroshilova(Institute of Organic Semiproducts and Dyes imeni K.Ye.Voroshilov)

Card 2/2

CHERKASSKIY, A.A.; MERZLOUKHOVA, L.V.

Determination of impurities on mono-and tetradianthrimides in dinitrodianthrimide by means of paper partition chromatography. Zav.lab. 28 no.10:1177-1179 '62. (MIRA 15:10)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley.
(Anthraquinone) (Paper chromatography)

MERZLOUKHOVA, Ye.V., inzh.

Clarifying notes on the state standards project "Fluorescent mercury lamps" (replaces state standards 6825-54).
Svetotekhnika 6 no.1:13-15 Ja '60. (MIRA 13:5)

1. Moskovskiy elektrolampovyy zavod.
(Fluorescent lighting--Standrads)

MERZLOUKHOVA, Ye.V., inzh.

All-Union State Standard "Fluorescent mercury lamps" (replaces State Standard 6825-54). Svetotekhnika 6 no.1: 15-18 Ja '60. (MIRA 13:5)

1. Moskovskiy elektrolampovyy zavod.
(Fluorescent lighting--Standards)

YEVSTRATENKO, P.; MERZLOV, A.; KALENOVA, M.; ROMANENKO, G.; KRASIYEV, F.

Contribution of airmen to the victory of Ust'-Labinsk grain growers. Grazhd.av. 20 no.11:4-5 N '63. (MIRA 17:2)

1. Zamestitel' komandira aviatsionnogo podrazdeleniya po letnoy sluzhbe, Krasnodar (for Yevstratenko). 2. Glavnyy agronom Ust'-Labinskogo proizvodstvennogo upravleniya (for Merzlov). 3. Nachal'nik otryada upravleniya po zashchite rasteniy Ust'-Labinskogo proizvodstvennogo upravleniya (for Kalenova). 4. Starshiy agronom kolkhoza imeni Lenina (for Romanenko). 5. Starshiy agronom kolkhoza "Kuban'" (for Krasiyev).

MEL'NIKOV, P., polkovnik.

Principles and rules of antitank fire. Voen.vest. no.14:20-27 '51.
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(Antitank guns)

KUVSHINOV, I.S., prof., doktor ekonom. nauk; LOVKOV, Ya.A., dotsent; MERZLOV, V.K., assistent

Evaluating the economic effectiveness of the use of mineral fertilizers in agriculture. Izv. TSKHA no. 1:3-11 '65 (MIRA 19:1)

1. Kafedra ekonomiki sel'skogo khozyaystva Moskovskoy sel'skokhozyaystvennoy ordena Lenina akademii imeni Timiryazeva.

PCHELIN, V.A.; IZMAYLOVA, V.N.; MERZLOV, V.P.

Mutarotation, conformation of polypeptide chains, and cross-linking in gelatin solutions. Vysokom.soed. 5 no.9:1429-1435 S '63. (MIRA 17:1)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

MERZLOV, V.P.; PCHELIN, V.A.

Role of ionogenic groups in [illegible]rmation conversions of elatin.
Dokl. AN SSSR 156 no. 3:6[illegible] -668 '64. (MI A 17:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
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ZEZIN, A.B.; BAKEYEV, N.F.; MERZLOV, V.P.; SHALDINA, L.A.; KOZLOV, P.V.

Aggregation of molecules of poly-L-glutamic acid in aqueous solutions at low pH values. Biofizika 10 no.2:207-211 '65. (MIRA 18:7)

1. Khimicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni Lomonosova.

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Mutarotation mechanism and gelation in gelatin solutions. Dokl. AN SSSR 163 no.1:147-150 Jl '65. (MIRA 18:7)

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MERZLOV, Ye.

Increasing the life of circulating lubricants in marine diesels. Mor.flot 19 no.11:36 N '59. (MIRA 13:3)

1. Starshiy mekhanik teplokhoda "Odessa," Dunayskogo parokhodstva.
(Marine diesel engines--Lubrication)

MERZLOV, Ye.; ZAV'YALOV, A.; LEBEDEV, N.; LAKTIONOV, A., gruppovoy inzh.-elektromekhanik; VERIGO, A., elektromekhanik

Automatic control on ships. Mor. flot 23 no. 12:45 D '63. (MIRA 17:5)

1. Nachal'nik sluzhby sudovogo khozyaystva Dunayskogo parokhodstva (for Merzlov). 2. Nachal'nik tekhnicheskogo otdela Dunayskogo parokhodstva (for Zav'yalov). 3. Starshiy inzh. NIO Odesskogo vysshego inzhenernogo morskogo uchilishcha (for Lebedev). 4. Dunayskoye parokhodstvo (for Laktionov, Verigo).

MERZLOVA, V.

For an excellent servicing of passengers. Avt.transp. 40 no.11:8 N '62. (MIRA 15:12)

1. Predsedatel' obshchestvennogo soveta konduktorov 1-go avtobusnogo parka Leningrada.
(Leningrad—Motorbus lines—Employees)

MERZLYAK, A.N., inzh.; RAPOPORT, G.S., inzh.; FEDORENKO, V.S., inzh.

Using fireproof gypsum-perlite plasters. Mont.i spets.rab.v stroi. 22 no.4:24-25 Ap '60. (MIRA 13:8)

1. Institut teploproyekt i TSentral'nyy nauchno-issledovatel'skiy institut protivopozharnoy oborony.
(Plaster) (Building, Fireproof)

KAL'YANOV, Nikolay Nikolayevich; MERZLYAK, Abram Naumovich; KITAYTSEV, V.A., red.; TYUTYUNIK, M.S., red. izd-va; TEMKINA, Ye.L., tekhn. red.

[Vermiculite and perlite: porous aggregates for insulating articles and concretes] Vermikulit i perlit - poristye zapolniteli dlia teploizoliatsionnykh izdelii i betonov. Pod red. V.A.Kitaitseva. Moskva, Gos.izd-vo lit-ry po stroit., arkhit.i stroit. materialam, 1961. 153 p. (MIRA 14:12)

(Vermiculite) (Perlite (Mineral)) (Insulating materials)

MERZLYAK, A.N.

Development of a standard for heaved perlite. Standartizatsiia 27 no.1:33-35 Ja '63. (MIRA 17:4)

BARBARINA, T.M.; BUBYR', N.F.; BUTT, L.M.; VEL'SOVSKIY, V.N.; GORLOV, Yu.P.; GRIBANOVSKIY, V.G.; DROZDOV, I.Ya.; YERMIN, I.A.; ZEZIN, V.G.; KEVESH, P.D.; KOCHALOV, E.F.; KOSYREVA, Z.S.; LEVIN, S.N.; MAKHOLICH, A.T.; MERZLYAK, A.N.; RODOV, E.S.; ROZHKOV, A.I.; SEREBRYANSKAYA, B.I.; SUKHAREV, M.I.; USTENKO, A.A.; KHOMENKO, Z.S.; SHMIDT, L.M.; ETIN, A.O.; YAKHONTOVA, N.Ye.; KITAYTSEV, Vladimir Andreyevich, prof., doktor tekhn. nauk, red.; SKHAKHTAYEV, B.G., glav. red.; TROKHIMOVSKAYA, I.P., zam. glav. red.; KRAVCHENKO, I.V., red.; KITAYGORODSKIY, I.I., red.; KRZHEMINSKIY, S.A., red.; MUKHARGEL', Ye.L., red.; BALAT'YEV, P.K. red.

[Manual on the manufacture of heat insulating and acoustical materials] Spravochnik po proizvodstvu teploizoliatsionnykh i akusticheskikh materialov. Moskva, Stroizdat, 1964. 524 p. (MIRA 18:1)

GIROVSKIY, V.F., nauchnyy rabotnik; KANTORER, S.B., nauchnyy rabotnik; SHASS, M. Ye., nauchnyy rabotnik; D'YAKOVA, M.V., nauchnyy rabotnik; BABENKO, A.P.; VOLPYANSKIY, S.Ya.; MERZLYAK, G.N.

[Socialist competition for cost reduction in construction work] Sotsialisticheskoe sorevnovanie za snizhenie stoimosti stroitel'nykh rabot. [Avtorskii kollektiv: V.F.Girovskii i dr.] Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1953. 55 p. (MLRA 6:7)

1. Moszhilstroy trest (for Babenko, Volpyanskiy, Merzlyak). 2. Kafedra Organizatsii i planirovaniya stroitel'nogo proizvodstva MIEI imeni S.Ordzhonikidze. 3. Moskovskiy inzhenerno-ekonomicheskiy institut imeni S.Ordzhonikidze (for Girovskiy, Kantorer, Shass, and D'yakova).

(Construction industry--Costs)

MERZLYAK, M.V.

AGALINA, M.S., inzh.; AKUTIN, T.K., inzh.; APRESOV, A.M., inzh.; ARISTOV, S.S., kand. tekhn. nauk,; BELOSTOTSKIY, O.B., inzh.; BERLIN, A.Ye.,inzh.; BESSKIY, K.A., inzh.; BLYUM, A.M., inzh.; BRAUN, I.V., inzh.; BRODSKIY, I.A., inzh.; BURAKAS, A.I.,inzh.; VAYNMAN, I.Z., inzh.; VARSHAVSKIY, I.N.,inzh.; VASIL'YEVA, A.A.,inzh.; VORONIN, S.A.,inzh.; VOYTSEKHOVSKIY, L.K., inzh.; VRUBLEVSKIY, A.A.,inzh.; GERSHMAN, S.G., inzh.; GOLUBYATNIKOV, G.A.,inzh.; GORLIN, M.Yu., inzh.; GRAMMATIKOV, A.N., inzh.; DASHEVSKIY, A.P.,inzh.; DIDKOVSKIY, I.L., inzh.; DOBROVOL'SKIY, N.L.,inzh.; DROZDOV, P.F.,kand. tekhn. nauk,; KOZLOVSKIY, A.A.,inzh.; KIRILENKO, V.G.,inzh.; KOPELYANSKIY, G.D.,kand. tekhn. nauk,; KORETSKIY, M.M.,inzh.; KUKHARCHUK, I.N.,inzh.; KUCHER, M.G.,inzh.; MERZLYAK, M.V.,inzh.; MIRONOV, V.V.,inzh.; NOVITSKIY, G.V.,inzh.; PADUN, N.M.,inzh.; PANKRAT'YEV, N.B ,inzh.; PARKHOMENKO, V.I.,kand. biol. nauk,; PINSKIY, Ye.A.,inzh.; POLLUBNYY, S.A., inzh.; PORAZHENKO, F.F.,inzh.; PUZANOV, I.G.,inzh.; REDIN, I.P.,inzh.; REZNIK, I.S.,kand. tekhn. nauk,; ROGOVSKIY, L.V.,inzh.; RUDERMAN, A.G.,inzh.; RYBAL'SKIY, V.I.,inzh.; SADOVNIKOV, I.S.,inzh.; SEVER'YANOV, N.N.,kand. tekhn. nauk,; SEMESHKO, A.T.,inzh.; SIMKIN, A.Kh., inzh.; SURDUTOVICH, I.N.,inzh.; TROFIMOV, V.I.,inzh.; FEFER, M.M.,inzh.; FIALKOVSKIY, A.M.,inzh.; FRISHMAN, M.S., inzh.; CHERESHNEV, V.A., inzh.; SHESTOV, B.S., inzh.; SHIFMAN, M.I., inzh.; SHUMYATSKIY, A.F.,inzh.; SHCHERBAKOV, V.I.,inzh.; STANCHENKO, I.K., otv. red.; LISHIN, G.L. inzh.,red.; KRAVTSOV,Ye.P., inzh.,red.; GRIGOR'YEV, G.V.,red.; KAMINSKIY, D.N.,red.; KRASOVSKIY, I.P.,red.; LEYTMAN, L.Z., red.[deceased]; GUREVICH, M.S.,inzh.,red.; DANILEVSKIY, A.S.,inzh.,red.; DEMIN, A.M., inzh.,red.; KAGANOV, S.I.,inzh.,red.; KAUFMAN, B.N., kand. tekhn. nauk, red.; LISTOPADOV, N.P.,inzh.,red.; MENDELEVICH, I.R., inzh.,red.[deceased];

(continued on next card)

AGALINA, M.S.... (continued) Card 2.

PENTKOVSKIY, N.I.,inzh.,red.; ROZENBERG, B.M.,inzh.,red.; SLAVIN, D.S., inzh.,red.; FEDOROV, M.P.,inzh.,red.; TSYMBAL, A.V.,inzh.,red.; SMIRNOV, L.V., red. izd-va.; PROZOROVSKAYA, V.L., tekhn. red.

[Mining ; an encyclopedic handbook] Gornoe delo; entsiklopedicheskii spravochnik. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po ugol'noi promyshl. Vol. 3.[Organization of planning; Construction of surface buildings and structures] Organizatsiia proektirovaniia; Stroitel'stvo zdanii i sooruzhenii na poverkhnosti shakht. 1958. 497 p. (MIRA 11:12)

(Mining engineering)
(Building)

BARKAN, D.D.; TIKUNOV, P.R.; SHEKHTER, O.Ya.; PREOBRAZHENSKAYA, N.A.; SAVINOV, O.A.; LUSKIN, A.Ya.; GREBENNIK, A.A.; MERZLYAK, TS.N.; ALEKSANDROV, M.A.; TSAPLIN, S.A.; PAVLOVA, A.B.; DITRIKH, Yu.V.; KHAVIN, B.N., red.izd-va; TEMKINA, Ye.L., tekhn.red.

[Instructions for driving and extracting steel pile planks using SN 59-59 vibrators] Instruktsiia po pogruzheniiu i izvlecheniiu stal'nogo shpunta vibropogruzhateliami SN 59-59. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 46 p. (MIRA 13:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Nauchno-issledovatel'skiy institut osnovaniy i podzemnykh sooruzheniy Akademii stroitel'stva i arkhitektury SSSR (for Barkan, Tikunov, Shekhter, Preobrazhenskaya). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot (VNIIGS) (for Savinov, Luskin). 4. Fundamentproyekt (for Grebennik, Merzlyak). 5. Vsesoyuznyy nauchno-issledovatel'skiy institut stroitel'nogo i dorozhnogo mashinostroyeniya (VNIIStroydormash) (for TSaplin). 6. Gidroproyekt (for Pavlova). 7. Gidrospetsfundamentstroy (for Ditrikh).
(Vibrators) (Piling (Civil engineering))

MERZLYAK, Ye. I.

Case of lambliasis in a 15-day-old child. Pediatriia no.4:89 '62. (MIRA 15:4)

1. Iz kafedry pediatrii (zav. - dotsent L. G. Leyvikov) Karagandinskogo meditsinskogo instituta (dir. - dotsent P. M. Pospelov) na baze gorodskoy bol'nitsy No. 2 (glavnyy vrach A. B. Antselevich)

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MEL'NIKOV Yu.I.

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[illegible] Ag '65. (MIRA 18:8)

MERZLYAKOV, A.

"Layer Plowing of Podsolic Soils." Tr. from the Russian. p. 25. (ZA SOCIALISTICKE ZEMEDELSTVI, Vol. 4, no. 1, Jan. 1954, Praha, Czechoslovakia)

So: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954/Unclassified

MERZLYAK, A.D.

A question for meadow management scientists. Zemledelie 5
no.3:76-77 Ag '57. (MLRA 10:9)

. Agronom kolkhoza "Druzhba," Kiyasovskogo rayona Udmurtskoy ASSR.
(Pastures and meadows)

MERZLYAKOV, A. V., Cand Agr Sci -- (diss) "Effect of ~~different~~ types of nutrition upon certain peculiarities of growth and development of foals." Kiev, 1956. 16 pp (Min of Higher Education Ukr SSR, Ukr~~ainian~~ Order of Labor Red Banner Agr Acad), 100 copies (KL, 52-57,110)

MERZLYAKOV, N.P.

What experience has shown in planning freight transport under the new conditions. Zhel. dor. transp. 40 no.2:13-17 F '58. (MIRA 11:3)

1. Zamestitel' nachal'nika gruzovoy sluzhby Severnoy dorogi, Yaroslval'.
(Russia, Northern--Railroads--Freight)

PERMINOV, V.A.; MERZLYAKOV, P.P.

Mechanized cleaning of glass. Suggested by V.A.Perminov, P.P. Merzlakov. Rats.i izobr.predl.v stroi. no.12:74-75 '59. (MIRA 13:5)

1. Po materialam Uralmashzavoda Sverdlovskogo sovnarkhoza, Sverdlovsk.
(Windows--Cleaning)

ILYUKOVICH, B.M., starshiy kalibrovshchik; MERZLYAKOV, T.F., starshiy master stana 250

Rolling the No. 1099 "special shape." Metallurg 5 no.2: 28-29 F '60. (MIRA 13:5)

1. Chusovskiy metallurgicheskiy zavod.
(Rolling (Metalwork))

VERDEREVSKIY, V.[illegible]

Making [illegible] planetary [illegible]. Metallurg
9 no.4:28-[illegible] Ap '64. (MIR [illegible]9)

1. Vsesoyuznyy [illegible] proyektno-konstruktorskiy institut metallurgicheskogo mashinostroyeniya.

MERZLYAKOV, Vladimir Ivanovich; MANAKIN, N.V., redaktor; VALOV, N.A., redaktor izdatel'stva; MIKHAYLOVA, V.V., tekhnicheskiy redaktor.

[The manufacture and repair of rolling mill rolls] Obrabotka i remont prokatnykh valkov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 224 p. (MLRA 10:4)
(Rolls (Iron mills))

RUTAK, Ye.G., gornyy inzhener; MERZLYAKOV, V.I., gornyy tekhnik; ZYRYANOV, A.I., gornyy tekhnik; MINEYEV, B.V., gornyy tekhnik.

Comparison of GM-506, PR-30K, TP-4 and KTeM-4 rock drill performance. Gor.shur.no.9:72-8 '57. (MIRA 10:9)

1. Degtyarskoye rudoupravleniye.
(Rock drills)

SHARATOV, I.A.; RYABTSEV, F.A.; MEFANKOV, V.I.

Improvement of the calibration of I-shaped beams by rolling them from 09G2 steel. Stal' 24 no.8:726-728 Ag '64. (MIRA 17:9)

1. Kuznetskiy metallurgicheskiy kombinat.

MERZLYAKOV, V.M.

Ordovician and Silurian stratigraphy of the Omulevka Mountains (northeast of the U.S.S.R.). Sov. geol. 7 no.10:155-167 O '64. (MIRA 17:11)

1. Severo-Vostochnoye geologicheskoye upravleniye.

TSYBENKO, K.Ye.; MERZLYAKOV, V.S.; SULKOVSKAYA, M.A., red.; PETRUSHKO, Ye.I., tekhn.red.

[How the "Bol'shevik" Collective Farm became a leader] Kak kolkhoz "Bol'shevik" stal peredovym. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1955. 82 p. (MIRA 13:8)
(Shostka District--Collective farms)

KULIKOV, V.N.; MERZLYAKOV, V.S.; LAPIDUS, M.A., red.; DEYEVA, V.M., tekhn.red.; ZUBRILINA, Z.P., tekhn.red.

[Cotton is harvested by machinery] Khlopok ubiraiut mashinami. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1959. 119 p. (MIRA 12:7)
(Cotton growing)

MERZLYAKOV, Vasiliy Stepanovich; LAPIDUS, M.A., red.

[Beacon in the virgin land] Maiak na tseline. Moskva, Kolos, 1965. 69 p. (MIRA 18:7)

L 42971-65 EWT(m)/EPF(c)/EPR/EWP(j) /T Pc-4/Pr-4/Ps-4 WW/RM
ACCESSION NR: AR5008931 S/0277/65/000/002/0027/0027

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin. Otdel'nyy vyp., Abs. 2.48.170

AUTHOR: Ar'yev, A.M.; Merzlyakov, V.V.; Pavskaya, L.M.

TITLE: Heat treatment of polycaprolactam and its effect on structure and mechanical properties

CITED SOURCE: Sb. tr. Kafedry fiz. Luganskiy mashinostroit. in-t, 4, 1964, 5-15

TOPIC TAGS: polycaprolactam, polymer tensile strength, polymer molecular weight, polymer structure, polymer heat treatment

TRANSLATION: The authors studied the effect of heat treatment (up to 7 hrs. at 70-80, 130-140 or 145-155C) on changes in molecular weight, structure and strength of polycaprolactam. The molecular weight increased at all heat-treatment temperatures as exposure lengthened, most rapidly during the initial 2 to 2.5 hours. The dependence of the polyamide's tensile strength on heat treatment time was not linear. Strength increased

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initially, then dropped and increased again. However, the tensile strength of heat-treated caprone was higher in all cases, exceeding values for untreated samples by 50 to 100%. Heat treatment at 130-140C should be continued only as long as the hexagonal symmetry system is maintained with a significant increase in molecular weight. Polycaprolactam exhibits the highest tensile strength during the initial 1.5 hours and after 6 hours of heat treatment. Bibl. with 5 titles.

SUB CODE: MT ENCL: 00

Card 2/2

AR'YEV, A.M. [Ar'iev, A.M.]; MERZLYAKOV, V.V.; PAVSKAYA, L.M. [Pavs'ka, L.M.]; TARASHCHANSKIY, A.G. [Tarashchans'kyi, A.H.]

Increasing the mechanical strength of polycaprolactam during the thermal processing. Khim.prom. [Ukr.] no.2:10-11 Ap-Je '65. (MIRA 18:6)

MERZLYAKOV, V.Z., inzhener (g. Mogilev)

Panels for chalk markings on freight cars. Zhel. dor. transp. 38 no.8:76-77 Ag '56. (MLRA 9:10)

(Railroads--Freight cars)

MELZLYAKOV, YA.

Feeding and Feeding Stuffs

Mechanized feed section on a collective farm. Kolkh. proizv. 12 No. 1, 195 .

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

MERZLYAKOV, Ya., inzh., nauchnyy sotrudnik

Mechanized feed mills with storerooms for vegetables. Sel'.stroi. 9 no.2:6-7 Mr-Ap '54. (MIRA 13:2)

1. Sverdlovskiy filial Nauchno-issledovatel'skogo instituta elektrifikatsii sel'skogo khozyaystva.
(Feed mills) (Vegetables--Storage)

CHUKIN, V.V.; MERZLYAKOV, Yu.I.

Aerodynamics of a pulverized-coal jet in a limited combustion chamber. Nauch.dokl.vys.shkoly; energ. no.1:85-92 '59. (MIRA 12:5)

1. Nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki.
(Aerodynamics) (Coal, Pulverized)

MEDIYaKOV, Ya.I.

Central nervous [illegible]
Alg. i log. 3 [illegible]

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S/020/60/134/003/023/033XX
C 111/ C 333

16, 2000

AUTHORS: Kargapolov, M. J., Merzlyakov, Yu. I., Remeslennikov, V.N.

TITLE: Completion of Groups

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 134, No. 3, pp. 518-520

TEXT: A complete group is defined as a group G in which $x^n = g$ is solvable for all $g \in G$ and every natural n.

Let G be the group of the transformations of the set M; let n be a natural number. Let $g(\overset{\alpha}{\alpha} g)$ denote that $g \in G$ transfers the symbol $\alpha \in M$ into $\alpha' = \alpha g \in M$. Let $M_1, \ldots, M_n$ be pairwise disjoint sets with the same power as M; let φ_i be a one-to-one mapping from M to M_i. Let G be a subgroup of the group S of all transformations of $\bigcup_i M_i$. Assume that isomorphism τ makes correspond to $g = (\overset{\alpha}{\alpha g}) \in G$ the element

$$\bar{g} = \begin{pmatrix} \varphi_1(\alpha) \\ \varphi_1(\alpha g) \end{pmatrix} \ldots \begin{pmatrix} \varphi_n(\alpha) \\ \varphi_n(\alpha g) \end{pmatrix} \quad \text{of } \bar{G} \subset S.$$

Assume that the isomorphism τ_i makes correspond to $g \in G$ the

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Completion of Groups

element

$$\begin{pmatrix} \varphi_i(\alpha) \\ \varphi_i(\alpha g) \end{pmatrix} \in S$$

Let $\widetilde{B}$ be the subgroup of S generated by the subgroups $\tau_1(B)$, $\tau_2(B)$, ..., $\tau_n(B)$, $B \subset G$.

Let a be an element of G. Then

$$x = \begin{pmatrix} \varphi_1(\alpha)\ \varphi_2(\alpha) & \ldots\ldots & \varphi_n(\alpha) \\ \varphi_2(\alpha)\ \varphi_3(\alpha) & \ldots\ldots & \varphi_1(\alpha a) \end{pmatrix} \in S$$

satisfies the relation $x^n = \bar{a}$, where $\bar{a} = \tau(a)$.

Lemma 1. If the subgroup N is invariant in G, then the subgroup $\widetilde{N}$ is invariant in the group $\{x, \widetilde{G}\}$.

Lemma 2. The commutant of the group $\{x, \widetilde{G}\}$ is contained in the commutant of $\widetilde{G}$.

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Completion of Groups

G is called limit group relative to the class of groups K, if G belongs to K or if it is identical with the union of a system of subgroups of K which is well-ordered relative to inclusion. Let $K_0(G)$ be the class of the groups isomorphic to G. Let $K_\beta(G)$ be defined to every ordinal number $\beta < \alpha$. As the class $K_\alpha(G)$ then one has to take the class of those groups which are limit groups relative to the class of the subgroups of all direct products of groups belonging to the union of the classes $K_\beta(G)$, $\beta < \alpha$.

Theorem 1: An arbitrary group G is contained in a complete group G_1 such that the commutant G'_1 of G belongs to the class $K_\alpha(G')$ for a certain α.

Let $\sum$ be a property of groups satisfying the following conditions 1.) Let each subgroup of a $\sum$-group be a $\sum$-group. 2.) The extension of a $\sum$-group by a $\sum$-group has the $\sum$-property.

An L $\sum$-group is defined to be a group which possesses locally the $\sum$-property.

Lemma 3. The extension of an L $\sum$-group by a locally finite L $\sum$-group is an L $\sum$-group. Let π be a set of prime numbers.

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Completion of Groups

G is called π-complete, if for every $g \in G$ and every natural n, the set of prime divisors $\pi(n)$ of which is contained in π, the equation $x^n = g$ is solvable.

Theorem 2: If the class of $\sum$-groups contains cyclic π-groups, then every L $\sum$-group G is contained in a certain π-complete L $\sum$-group.

From the theorems it follows among others:

Every soluble (locally soluble) group G is contained in a certain complete soluble (locally soluble) group.

There are 5 references: 4 Soviet and 1 English.

ASSOCIATION: Permskiy gosudarstvennyy universitet imeni A. M. Gor'kogo (Perm State University imeni A. M. Gor'kiy)

PRESENTED: May 9, 1960, by A. I. Mal'tsev, Academician

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AUTHOR: Kuznetsov, Ye. V., Fayzullin, I. N., Merzlyakova, E. Ya.

TITLE: Synthesis of phosphoorganic polysulfones. III. The reaction of sulfur dioxide with unsaturated phosphoorganic polyesters

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 7, 1964, 1318-1322

TOPIC TAGS: polyester, interfacial condensation, vinylphisphinic acid, Beta-(n-butoxy) vinylphosphinic acid, diphenol, dichloroanhydride, hydroperoxide, dichloroethane, dioxane, sulfur dioxide, polymer hardening, polymerization initiator, phosphoorganic polyester, unsaturated polyester, polymerization catalyst, polysulfone, phosphoorganic polysulfone

ABSTRACT: Several unsaturated phosphoorganic polyesters were synthesized by the interfacial condensation of the dichlorides of vinylphosphinic and β-(n-butoxy) vinylphosphinic acids, and their properties were investigated. The resulting polyesters are liquid or solid resins of various colors, depending on the initial reactants. The tabulated data on the properties of the synthesized polyesters show that for polyesters obtained by the interaction of diphenols with the dichloroanhydrides of alkylenephosphinic acids the specific viscosity

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