HORAK, F.; KALAMAR, J.; MELNIKOVOVA, N.

Preparation of new p-ethoxyphenylthiourea derivatives. Cesk. farm. 11 no.2:80-81 F '62.

1. Katedra organickej technologie, chemicka fakulty SVST, Bratislava.
(THIOUREA rel cpds)

SOKLAKOV, A.I.; MIL'NIKOVS, S.V.

Electric resistance of sulfur - phosphorus and sulfur-arsenic melts. Zhur. fiz. khim. 36 no.6:1339-1341 Je'62 (MIRA 17:7)

1. Nauchnyy institut udobreniy i insektofungisidov imeni Ya.V. Samoylova.

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(GEOGRAFIIA, Vol. 4, No. 7, 1954 - Bulgaria)

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"The Ukraine" P. 12
(GEOGRAFIIA, Vol. 4, No. 8, 1954 - Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4, Apr. 1955, Uncl.

MELNISHKI, L.

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SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

MELNISHKI, L.

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(GEOGRAFIIA, Vol. 4, No. 10, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.

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Vol. 5, no. 8, 1955
GEOGRAFIIA
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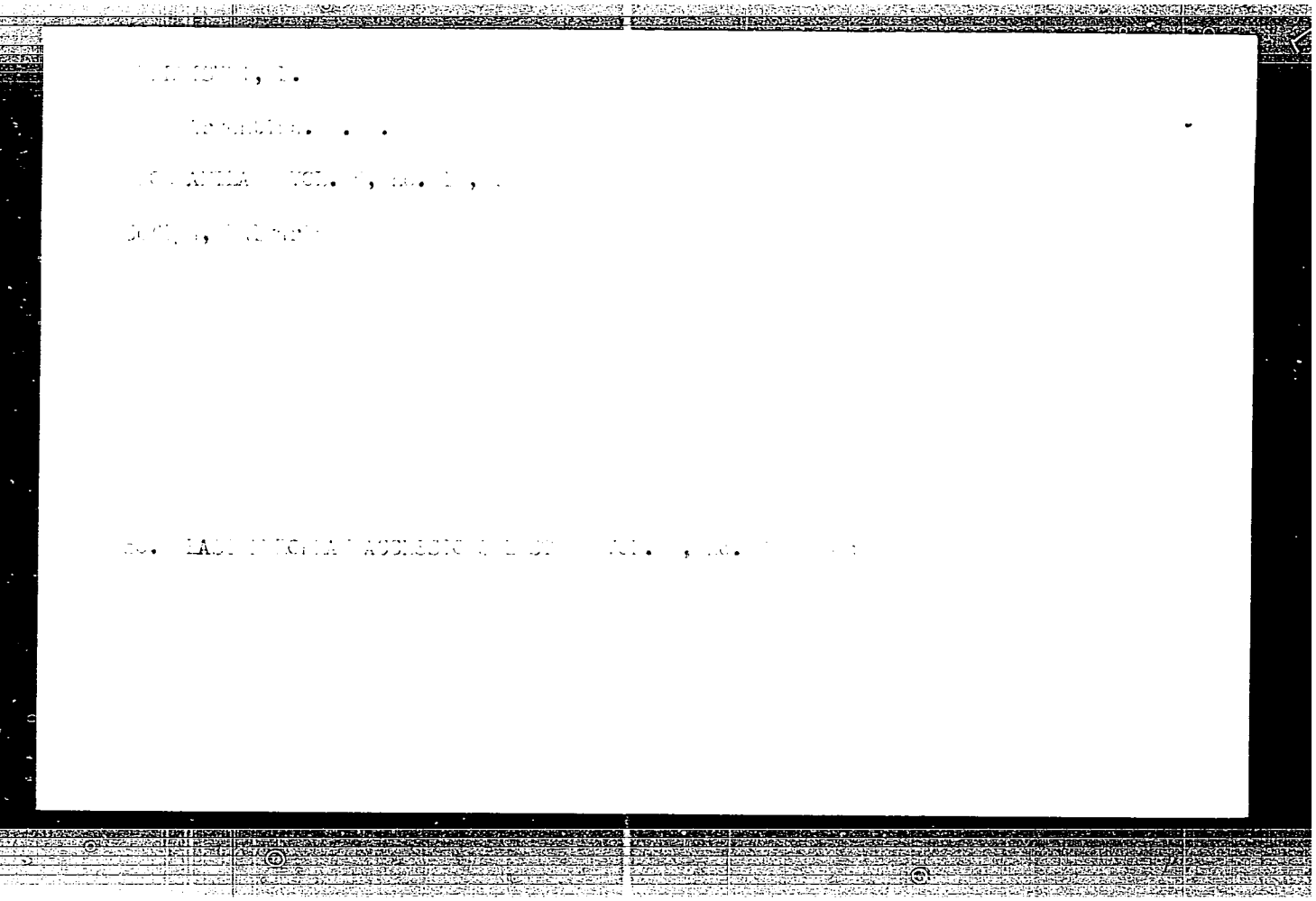

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[illegible]TSCHI, LYUBEN

796/6
.22.12
.N5

Chorno More i Nasheto Chernomorie (The Black Sea and our Black Sea Coast)
Sofiya, Nauka i Izkustvo, 19[illegible].
2h2 p. Illust, map (Bibliteka [illegible] Geografsko Druzhestvo)

MELNITSHKI, I.

Oasis in the middle of the White Continent ice. p. 18.
(Geografiia, Vol. 7, no. 3, 1957. Sofiia, Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, October 1957. Uncl.

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Unclassified

KELNISHKI, Liuben; BOROV, Ivan; KAZASOV, Pimo; Protopopova, I., [translator]; KRAPCHEV, K., red.izd-va; ZHIVKOV, Yu., red.; IVANOV, I., tekhn. red.

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(Bulgaria--Guidebooks)

KURMAN, I.M.; MEL'NITSKIY, V.V.; ZAYTSEV, L.S.; MEL'NITSKAYA, Ye.F.; ORLOVA, Ye.V.; Prinimali uchastiye: OKNINA, V.A.; KORYAKOV, G.Ya.; DARAGAN, V.Kh., red.; SHUGIN, A.A., red.; AFANAS'YEVA, Yu.N., red. izd-va; IYERUSALIMSKAYA, Ye.S., tekhn. red.

[Prospecting for boron] Poiski i razvedka bornogo syr'ia. Pod obshchei red. V.Kh.Daragana, I.M.Kurmana i A.A.Shugina. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1960. 102 p. (MIRA 14:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. 2. Gosudarstvennyy nauchno-issledovatel'skiy institut gorno-khimicheskogo syr'ya Gosudarstvennogo komiteta Soveta Ministrov SSSR (for Mel'nitskaya, Okina, Koryakov). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya Ministerstva geologii i okhrany nedr (for Orlova).

(Boron)

MELINITSKAYA, Ye.F.

Find of pyrrhotite in Lower Permian sediments. Zap. Vses. min.
[illegible] (MIRA 18:3)

MEL'NITSKAYA, Z. S.

Mel'nitskaya, Z. S.

"The use of mud and hydrogen-sulfide baths in the complex treatment of patients with infectious myelitis." Min Health USSR. Central Inst of Spa Studies. Moscow, 1956. (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhnaya letopis', No. 25, 1956

MEL'NITSKAYA, Z.S.

Treatment of patients with scleroderma with artificial hydrogen sulfide baths. Vest.derm.i ven. no.7:38-41 '61. (MIRA 15:5)

1. Iz nevrologicheskogo otdeleniya TSentral'nogo instituta kurortologii i fizioterapii (zav. - prof. N.S. Chetverikov).
(SCLERODERMA) (HYDROGEN SULFIDE--THERAPEUTIC USE)

KISELEVA, A.M.; MEL'NITSKAYA, Z.S.

Bioelectrical activity of the brain in Raynaud's syndrome. Zhur. nevr. i psikh. 62 no.1:70-77 '62. (MIRA 15:4)

1. Nevrologicheskoye otdeleniye (zav. - prof. N.S.Chetverikov) Nauchno-issledovatel'skogo instituta kurortologii i fizioterapii (dir. - dotsent G.N.Pospelova) Ministerstva zdravookhraneniya RSFSR, Moskva.
(ELECTROENCEPHALOGRAPHY) (RAYNAUD'S DISEASE)

KANAVETS, L.N.; SPIRIDONOVA, F.V.; MEL'NITSKAYA, Z.S.; IL'ICHEVA, Ye.M.
LYUDVINSKAYA, P.F.

Effect of climatic factors on some vegetative reflexes in patients with neyrasthenia under the accustomed conditions of the central belt. Vop.kur., fizioter. i lech. fiz. kul't. 28 no.2:108-115 Mr-Ap'63. (MIRA 16:9)

1. Iz Tsentral'nogo instituta kurortologii i fizioterapii (dir.-kand.med. nauk G.N.Pospelova).

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Bucket-wheel excavator with auger teeth. Trudy NIITransneft' no.1:333-344 '61. (MIRA 16:5)
(Earthmoving machinery)

BEREGOVSKIY, V.Ye.; VASILENKO, M.I.; VELIER, R.L.; VERBLOVSKIY, A.M.; VERNER, B.F.; VOYDALOVSKAYA, Ye.N.; VOL'SKIY, A.N.; GLAZKOVSKIY, A.A.; GRANOVSKIY, B.L.; GREYVER, N.S.; GUDIMA, N.V.; DOLGOPOLOVA, V.I.; KARCHEVSKIY, V.A.; KOVACHEVA, Ye.B.; KUDRYAVTSEV, P.S.; LEBEDEV, A.K.; LISOVSKIY, D.I.; LIKHNITSKAYA, Z.P.; MATVEYEV, N.I.; MEL'NITSKIY, A.N.; MIRONOV, A.A.; MIKHEYEVA, A.A.; MURACH, N.N.; OKUN', A.B.; OL'KHOV, N.P.; OSIPOVA, T.B.; PAVLOV, V.P.; ROTINYAN, A.L.; SAZHIN, N.P.; SEVRYUKOV, N.N.; SIDOROV, P.M.; SOBOL', S.I.; KHEYFETS, V.L.; TSEYNER, V.M.; SHAKHNAZAROV, A.K.; SHEYN, Ya.P.; SHEREMET'YEV, S.D.; SHERMAN, B.P.; SHISHKIN, N.N.; SHLOPOV, A.P.

Georgii Ivanovich Blinov. TSvet.met. 28 no.6:62 N-D '55. (MIRA 10:11)

(Blinov, Georgii Ivanovich, 1911-1955)

MEL'NITSKIY, N.G.; SASIN, I.F.

Mechanized assembly and welding line for the main frames of the TEZ diesel locomotives. Biul.tekh.-ekon.inform. no.1:69-72 '60. (MIRA 13:5)
(Lugansk--Diesel locomotives)

MEL'NITSKIY, V. B. (Kiyev)

Determining uropepsin for evaluating the secretory function of the stomach. Klin. med. no.2:35-39 '62. (MIRA 15:4)

1. Iz kafedry terapii (zav. - prof. T. T. Glukhen'kiy) pediatricheskogo fakul'teta Kiyevskogo meditsinskogo instituta (dir. - dotsent V. D. Bratus')

(UROPEPSIN) (STOMACH--SECRETIONS)

GLUKHEN'KIY, T.T.; MEL'NITSKIY, V.B.

Dynamics of the excretion of uropepsin in bronchial asthma. Terap. arkh. no.7:40-44 Jl '62. (MIRA 15:8)

1. Iz kafedry terapii pediatricheskogo fakul'teta (zav. - prof. T.T. Glukhen'kiy) Kiyevskogo meditsinskogo instituta.
(ASTHMA) (UROPEPSIN)

MEL'NITSKIY, V.B.

Significance of the functional activity of the adrenal cortex in the excretion of uropepsin. Vrach.delo no.2:75-78 F '63.
(MIRA 16:5)

1. Kafedra terapii (zav. - prof. T.T. Glukhen'kiy) pediatricheskogo fakul'teta Kiyevskogo meditsinskogo instituta.
(UROPEPSIN) (ADRENAL CORTEX)

BLAGOVESHCHENSKIY, A.V.; MEL'NITSKIY, V.N.

Modifying the apparatus for determining the activity of an oxidase by a gasometric method. Biul. Glav. bot. sada no.51:91-93 '63. (MIRA 17:2)

1. Glavnyy botanicheskiy sad AN SSSR.

MEL'NITSKIY, V.V. (Leningrad, pr. Karla Marksa, d.18, kv.12)

Surgical treatment of tuberculosis of the talocrural joint [with summary in English]. Vest.khir. 82 no.3:72-80 Mr '59.
(MIRA 12:4)

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta khirurgicheskogo tuberkuleza (dir. - prof. P.G. Kornev).

(TUBERCULOSIS, OSTEOARTICULAR, surg.
ankle (Rus))
(ANKLE, dis.
tuberc., surg. (Rus))

MEL'NITSKIY, V.V. (Leningrad K-175, prosp. Karla Marksa, d.18, kv.12)

Treatment of tuberculosis of the bones and joints of the tarsus. Ortop., travm. i protez. 24 no.9:20-24 S '63. (MIRA 17:4)

1. Iz Leningradskogo instituta khirurgicheskogo tuberkuleza (dir. - prof. D.F.Zhokhlov, nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR prof. P.G.Kornev).

MEL'NITSKIY, V.V.; AYZENSHTAT, I.I., redaktor; SHPAK, Ye.G., tekhnicheskiy redaktor

[Where and how to prospect for boron deposits] Gde i kak iskat' mestorozhdeniia bora. Moskva, Gos.nauchno-tekhn.izd-vo khim. lit-ry, 1957. 27 p. (MLRA 10:8)
(Boron)

MEL'NITSKIY, V.V.

Occurrence of boron in the Tagil-Kuzhvinsk region of the Urals. Dokl. AN SSSR 112 no.4:736-738 F '57. (MLRA 10:4)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gorno-khimicheskogo syr'ya. Lyubertsy, Moskovskoy oblasti. Predstavleno akademikom D.S.Korzhinskim.
(Ural Mountain region--Boron)

KURMAN, I.M.; MEL'NITSKIY, V.V.; ZAYTSEV, L.S.; MEL'NITSKAYA, Ye.F.; ORLOVA, Ye.V.; Prinimali uchastiye: OKNINA, V.A.; KORYAKOV, G.Ya.; DARAGAN, V.Kh., red.; SHUGIN, A.A., red.; AFANAS'YEVA, Yu.N., red. izd-va; IYERUSALIMSKAYA, Ye.S., tekhn. red.

[Prospecting for boron] Poiski i razvedka bornogo syr'ia. Pod obshchei red. V.Kh.Daragana, I.M.Kurmana i A.A.Shugina. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1960. 102 p. (MIRA 14:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. 2. Gosudarstvennyy nauchno-issledovatel'skiy institut gorno-khimicheskogo syr'ya Gosudarstvennogo komiteta Soveta Ministrov SSSR (for Mel'nitskaya, Okina, Koryakov). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya Ministerstva geologii i okhrany nedr (for Orlova). (Boron)

MEL'NITSKIY, V.V.; STOLYAROV, A.G., red. izd-va; SHIRAKOVA, T.M., tekhn. red.

[Boron, sites and methods for prospecting] Bor, gde i kak ego iskat'. Izd. 3., perer. Moskva, Gosgeoltekhizdat, 1962. 30 p. (MIRA 15:8)

(Boron) (Prospecting)

SMUROVA, Ye.I.; ROGOVAYA, T.Z.; TROITSKIY, S.A.; LASHCHENKO, N.S.; MEL'NOKOVA, N.D. (Gor'kiy)

Industrial hygiene and the state of health of workers at enterprises using high-frequency currents. Gig. truda i prof. zab. 6 no.5:22-28 My'62. (MIRA 16:8)

1. Gor'kovskiy nauchno-issledovatel'skoy ihstitut gigiyeny truda i professional'nykh bolezney.
(INDUSTRIAL HYGIENE)
(ELECTROMAGNETIC FIELDS—PHYSIOLOGICAL EFFECT)

K.LINKIN, L. F.; ESTULIN, I. V.; MELNORANSKIY, A. S.

"Excited States of Rh^{104}."

"Gamma Radiations in the Reaction $Ag^{109}(n,\gamma)Ag^{110}$."

reports submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

MGU (Moscow State Univ)

MEL'NICHUK, Ye.V. [Mel'nychuk, IE.V.]; SHOTSKIY, I.I. [Shots'kyi, I.I.]

New deposit of carbonate raw material in the northern part of the Ukraine. Geol. zhur. 25 no.3:121-122 '65. (MCRA 18:11)

1. Pravoberezhnaya ekspeditsiya tresta "Kiyevgeologiya".

L 45241-66 FSS-2/EWT(1) GW/WR

ACC NR: AR6023289 SOURCE CODE: UR/0058/66/000/003/H057/H057

AUTHOR: Moysya, R. I.; Bayrachenko, I. V.; Mel' nyk, V. I.

ORG: none

TITLE: Radar system for velocity measurements of meteors

SOURCE: Ref. zh. Fizika, Abs. 3Zh399

REF SOURCE: Radiolokatsiyna ustanovka dlya vymiryuvannya shvydkostey meteoriv. Visnyk Kyyivs' k. un-tu. Ser. astron., no. 6, 1964, 115-119

TOPIC TAGS: radar system, velocity measurement, meteor

ABSTRACT: The block-diagram and some assemblies of a radar system designed to measure meteor velocities are described. The basic parameters of the system are as follows: wavelength—6.49 m, pulse duration—10 μsec, repetition frequency—400 pulses/sec, pulse power—50 kw, receiver sensitivity—5 μv. [Translation of abstract] [DW]

SUB CODE: 09/

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L 04097-67 EWT(1)/FSS-2 GW/WR

ACC NR: AR6023288 SOURCE CODE: UR/0058/66/000/003/H057/H057

AUTHOR: Moysya, R. I.; Kolomiyets', H. I.; Mel'nyk, V. I.

TITLE: Some results of radar observation of meteors at wavelength $\lambda = 8.7$ m

SOURCE: Ref zh. Fizika, Abs. 3Zh398

REF SOURCE: Deyaki rezul'taty radiolokatsiynykh sposterezhen' meteoriv na dovzhyni khvyli $\lambda = 8{,}7$ m. Visnyk Kyyivs'k. un-tu. Ser. astron. no. 6, 1964, 111-114

TOPIC TAGS: radar meteor observation, meteor trail, radio echo

ABSTRACT: Results are presented of trial observations of meteors, carried out with the aid of apparatus constructed in the Gneral Radio Engineering Department of the Kiev University. The apparatus makes it possible to measure the velocity and drift direction of the meteor trails, the velocity of the meteoric particles, the slant range to the trail, the time of appearance of the meteor, and the amplitude and duration of the meteoric radio echo. The main parameters of the apparatus are: pulse power 100 kW, wavelength $\lambda = 8.7$ m, receiver sensitivity 3 - 5 μv. A brief description is presented of the block diagram of the apparatus. Results of observations made on 27 - 28 May 1964 are used to construct the statistical characteristics of radio meteors. An estimate of the directivity pattern of the antenna in the vertical plane is obtained from the slant-range distribution of the radio meteors. The maximum antenna radiation is at an angle $\theta = 24°$. The distribution of the radio meteors by velocities and the distribution of the amplitudes of the radio meteors are presented. Data are

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ACC NR: AR6023288

obtained on the drift velocity of the meteor trails. [Translation of abstract]

SUB CODE: 03

kh

Card 2/2

MEL'NOV, M.

Conference on the scientific organization of labor. Biul.nauch. infrom.: trud i zar.plata 3 no.9:44-48 '60. (MIRA 13:9)
(Sverdlovsk Province--Efficiency, Industrial--Congresses)

MELNYIK, D.M., a muszaki tudomanyok kandidatusa (Soviet Union)

Rational methods for track protection against snowdrifts.
Vasut 15 no.1:28-29 Ja '65.

ACC NR: AR6035292 SOURCE CODE: UR/0269/66/000/009/0048/0048

AUTHOR: Fialko, Ye. Y.; Moysya, R. I., Mel'nyk, V. I.; Kolomiyets', H. I. -- Kolomiyets', A. R.; Yemel'yanov, I. M.; Shul'ha, A. I.; Yavlins'kyy, A. Ya.

TITLE: Radar set for observing the drift of meteor trails

SOURCE: Ref. zh. Astronomiya, Abs. 9.51.411

REF SOURCE: Visnyk Kyyivs'k. un-tu. Ser. astron., no. 7, 1966, 69-74

TOPIC TAGS: meteor trail, radar antenna, radar meteor observation, train drift

ABSTRACT: A description is given of a radar set designed at the Department of General Radio Engineering of Kiev University and which is intended for measuring the velocity and direction of the drift of ionized trains. The basic parameters of the equipment are as follows: frequency 34.47 mc; transmitter pulse power 100 kw; pulse duration 10 μsec; sending frequency 500 cps; each fifth pulse is doubled; receiver sensitivity $\sim$ 3 μv; receiver passband 600 kc. Identical type wave-duct five-element antennas are used for reception and transmission measurements of the drift velocity radial component is carried out by the pulse-coherent method. The

Card 1/2 UDC: 523.164.85

ACC NR: AR6035292

unit is equipped with a system of noise protection which makes it possible to select reflected signals on the basis of duration, amplitude and code. The equipment was tested in March—May 1964. Article includes a bibliography of 6 titles. V. Lebedinets. [Translation of abstract] [DW]

SUB CODE: 03, 09/

Card 2/2

ACC NR: AR6035293 SOURCE CODE: UR/0269/66/000/009/0048/0048

AUTHOR: Moysya, R. I.; Kolomiyets', H. I.; Mel'nyk, V. I.

TITLE: Recording the velocity and direction of meteor trail drifts

SOURCE: Ref. zh. Astronomiya, Abs. 9.51.412

REF SOURCE: Visnyk Kiyivs'k. un-tu. Ser. astron., no. 7, 1966, 75-78

TOPIC TAGS: meteor, meteor trail, meteor trail drift, coherent pulse method

ABSTRACT: At present, the coherent pulse method used in radar measurement of meteor trail drifts usually employs the recording reflected signal method, in which two beams of a cathode-ray indicator tube are used. One of the pulse sequences is obtained with the aid of reference voltage, whose phase is further shifted by 90°. A method is proposed in which both pulse sequences are recorded with one beam. The phase shift of the reference signal by 90° is effected at the time of the reception of a reflected code pulse or one of the pulses of the basic sequence (e.g., each fifth pulse). Block diagrams of the equipment and a sample of the recording of a reflected signal are given. V. Lebedinets. [Translation of abstract] [SP]

SUB CODE: 03/

Card 1/1 UDC: 523.164.85

PECHAMANN, Vaclav; MELO, Ludovit

Finish of interior smooth surfaces of concrete walls and ceilings.
Poz stavby 13 no.3:100-102 '65.

1. Pozemne stavby, Bratislava.

MELODIYEV, L.S.

Electromagnetic calculation of current transformers. Trudy Inst. energ. AN UzSSR no.7:113-123 '53. (MLRA 8:9)
(Electric transformers)

MELODIYEV L. S.

RAKHIMOV, G.R.; MELODIYEV, L.S., otvetstvennyy red.; ROMANIKA, N.A., red. izd-va; GOR'KOVAYA, Z.P., tekhn.red.

[Ferroresonance; autoparametric oscillators of electroferromagnetic circuits] Ferrorezonans; avtoparametricheskoe vozbuzhdenie elektroferromagnitnykh tsepei. Tashkent, Izd-vo Akad. nauk Uzbekskoi SSR, 1957. 142 p. (MIRA 11:4)
(Electric circuits)

MELODIYEV, L.S.; VOROTYNTSEV, B.N.

Determining operating conditions of autonomous inverters. Izv. AN Uz. SSR. Ser. tekh. nauk no. 2:21-33 '57. (MIRA 11:7)
(Electric current converters)

9(4) SOV/112-58-3-4753

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1958, Nr 3, p 198 (USSR)

AUTHOR: Melodiyev, L. S., and Vorotyntsev, B. N.

TITLE: Natural Characteristics of an Inverter With External Controlling EMFs (Yestestvennyye kharakteristiki invertora s vneshnimi kommutiruyushchimi e. d. s.)

PERIODICAL: Tr. In-ta energ. AN Uzbekskaya SSR, 1957, Nr 10, pp 55-65

ABSTRACT: One of the principal requirements of a motor-supply-type inverter is that its output-voltage waveshape be as close as possible to the sine wave; this also determines the sine waveshape of the voltage across the firing-point controlling capacitors. This can simplify calculations of electromagnetic phenomena, because the control capacitors can be replaced by external EMFs obeying the sine law. Thus, the design of such a scheme would be similar to a design of an inverter supplying a counter-EMF load. Functioning of a parallel-inverter circuit with external controlling EMFs applied in parallel

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9(4)

SOV/112-58-3-4753

Natural Characteristics of an Inverter With External Controlling EMFs

with the primary windings of the inverter transformer is analyzed. One and two valves conduct in sequence. In this scheme, it is assumed that the inverter supplies a complex load and has a sufficient inductance in the cathode circuit. Relationships are developed which tie the inverter operating parameters with its load. On the basis of the data obtained, characteristics are constructed that express mutual relations among the following: firing-point angle, constant EMF, B-factor that characterizes the inverter load, and D-factor that characterizes the phase-control reactive power or the required capacitance of the phase-control capacitors. External characteristics of the inverter are also supplied. A conclusion is offered that the above relations represent the actual processes in an inverter scheme with sufficient accuracy and that they can be used for engineering designs of inverter operation.

I. L. R.

Card 2/2

MELODIYEV, L. S.

"Energetic relations in electric circuits with ferromagnetic connection."

Paper presented at the Intl. Symposium on Nonlinear Vibrations, Kiev, USSR, 9-19 Sep 61

Central Asian Polytechnical Institute, Tashkent

MELODIYEV, V.Ye.

Bottle sorting in the Leningrad liquor and vodka plant. Spirt.prom. 20 no.1:19-20 '54. (MLRA 7:5)
(Liquor industries) (Bottle washing)

MELODIYEV, V.Ye.

Stirring during the extrusion of fruit juices. Spirt.prom. 20 no.3: 41 '54. (MLRA 7:10)
(Fruit juices)

MELODIYEV, V.Ye.

"Organization and planning of food industry enterprises." V.E.Denskov and others. Reviewed by V.E.Melediev. Spirt.prom.22 no.1:38 '56. (MIRA 9:7)
(Feed industry) (Denskov, V.E.) (Ivanov, F.I.) (Meshkov, IU.K.) (Meisoev, P.N.) (Khinkis, A.A.)

MELODIYEV, V.Ye.

Technical development and progressive practices ("Leningrad Liqueur and Vodka Plant." Reviewed by V.E. Melodiev). Spirt. prom. 22 no.3:42-43 '56. (MLRA 9:11)

(Distilling industries--Equipment and supplies)

MELODNEV, V.Ye.

Review of the pamphlet "Technical progress and advanced experience."
Spirt. prom. 24 no.1:45-46 '58. (MIRA 11:3)
(Distilleries)

MELODIYEV, V. Ye.

New reference books on wage scales. Spirt.prom. 27 no.4:44-45 '61. (MIRA 14:6)
(Distilling industries)
(Wages)

KVARTSKHOVA, I.F.; BONDARENKO, V.V.; MELODZE, R.D.; SULADZE, K.V.

Electrical explosion of wires in vacuum. Zhur. eksp. i teor. fiz. 31 no.5:737-744 N '56. (MLRA 10:2)

(Electric discharges)

ORFANITSKIY, Yu.A., otv. za vyp.; MELOKHOV, I.S., akademik, red.; NIKOLAYEV, V., tekhn. red.

[Fundamentals of the typology of cutovers and its significance in forest management]Osnovy tipologii vyrubok i ee znachenie v lesnom khoziaistve; sbornik statei. Pod red. I.S.Melekhova. Arkhangel'sk, 1959. 226 p. (MIRA 15:12)

1. Akademiya nauk SSSR. Institut lesa i lesokhimii. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Melokhov).

(Forest management)

MELOMED, V.I.; RUSHCHITS, V.R.; ZIMIN, N.K.

Semiautomatic sharpening and lapping of ceramic-metal cutting tools. Stroi.i dor.mashinostr. no.11:31-34 N '56. (MLRA 9:12)
(Cutting tools)

MELOMED, Ya. P. (Alma-Atinskaya obl., s. Kaskelen, ul. Shirokaya, d. 67)

A case of hernia of the linea semilunaris. Nov. khir. arkh. no.2: 110-111 Mr-Ap '59. (MIRA 12:7)

1. Khirurgicheskoye otdeleniye (zav. - Ya. P. Melomed) Dzhambul'skoy rayonnoy bol'nitsy Alma-Atinskoy oblasti.
(HERNIA)

MELON, JADWIGA

Distr: 4E2c(j) 1

Fractionation of fiber-forming polymers. Marceli Lacz-kowski and Jadwiga Melon (Inst. Synthetic Fibers, Łódź, Poland). *Faserforsch. u. Textiltech.* 11, 1-6(1960).—Poly-(ethylene terephthalate) was dissolved in a 1:1 mixt. of phenol and tetrachloroethane. Into 10 volumetric cylin-ders 100 ml. of 1% polymer soln. was placed and, at a temp. of 30 ± 0.03°, increasing amts. of *n*-heptane were added. In addn., phenol-tetrachloroethane mixt. was also added in such amts. that the distribution of the polymer in the 2 liquid phases was identical in each cylinder. The system was stirred 8 hrs. at 30 ± 0.03° and allowed to sep. 12 hrs. To the top layers excess *n*-heptane was added to complete the pptn. of the polymer. The new top layers, contg. no polymer, were discarded and acetone was added to the residue which was then filtered, washed, and dried. The amts. and mol. wts. of the fractions were detd. by viscometry. The degree of polymerization of the individual fractions of identical vol. was detd. and a mol. wt./degree of polymerization curve was prepd. according to the method of Coppick, *et al.* (*C.A.* 45, 2200c). From the results integral curves were prepd. and these were differentiated graphically. Curves also were prepd. according to the Tung method (*C.A.* 50, 16174i). ε-Polycaprolactam was fractionated in a similar manner in a phenol-MeOH-water system. The method is selective, accurate, and the fractionation can be completed in 48 hrs. It is limited to samples contg. 1 type of polymer only and will allow a differentiation between various batches. The inherent errors in the graphical differentia-tion were successfully eliminated by interpreting the results by the Tung method.

G. J. Ernyei

4

1-99(NB)

1

MELOTILOV, B. V., and LIVSHITS, B. G., (Moscow)

"The Magnetic Investigation of the Ordering of the Alloys," a paper submitted at the International Conference on Physics of Magnetic Phenomena, Sverdlovsk, 23-31 May 56.

The adsorption of reducing sugars by Carboraffin and

norite. Bedřich Meloun. *Listy Cukrovar.* 66, 75-81 (1949).—In solns. contg. 50 mg. of sugar per 100 ml. of water 2 g. of Carboraffin adsorbed 14% of the glucose, 10.5% of the fructose, and 10.7% of the invert sugar; norite adsorbed 24% of the glucose, 27% of the fructose, and 27% of the invert sugar. Ten g. of Carboraffin adsorbed 26% of the glucose, 22% of the fructose, and 23% of the invert sugar; 10 g. of norite adsorbed 53% of the glucose, 49% of the fructose, and 50% of the invert sugar. The adsorption was complete in 5 min. at 20°. Norite exhibits a definite selectivity for reducing sugars. In the detn. of invert sugar in molasses Carboraffin gave the more accurate results. Norite adsorbed an appreciably large quantity of invert sugar; hence it lowered the true values.

Frank Maresh

Bv abs

Bill 2 Sugar, Starch & Glucose Industries

Nitrogen (compounds) precipitable by cuprous iodide from sugar-factory products. L. B. Melcon (*Listy Cukr.*, 1951, 67, 76—81; *Sug. Ind. Abstr.*, 1951, 13, 109).—A periodide, ppted. from molasses by KI_3, was decomposed by powdered Cu to betaine and CuI. The CuI still contained N compounds, unremovable by acid or alkali. From the periodide, however, most of the I was extracted by C_6H_6, and on removal of the residual I [ppte. by $Hg(OAc)_2$], the filtrate yielded betaine only, the other N compounds being carried down in the ppt. This ppt. was boiled with dil. AcOH, and the HgI_2 was filtered off; after removal of sol. Hg salts from the filtrate (by H_2S) and sulphides [by $Ba(OH)_2$], N compounds were ppted. by aq. $AgNO_3+NH_4$, when decomp. of the Ag compounds yielded a yellowish product of purine bases. By fractional dissolution of these (with HNO_3, and then aq. NH_3 and HCl), adenine, guanine, hypoxanthine, and xanthine (traces) were identified. Other coloured unidentifiable N compounds were present. P. S. Arup.

BC.

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681. **Nitrogen (compounds) precipitable by cuprous iodide from sugar factory products.** H. B. Moleen. (*Lilly Contr.*, 1951, **27**, 157—159; *Sug. Ind. Abstr.*, 1951, **13**, 163; cf. *ibid.*, 1951, **13**, 109).—Owing to the small purine yields previously obtained from molasses by pptn. with KI_3 and decomposition of the ppt. with Ca and $Ca(OH)_2$, tests were made with the pure compounds. The % ppted. by KI_3, % not retained, and % retained by Cu_2I_2 were, respectively: betaine hydrochloride 100, 89·0, 11·0, adenine 98·5, 1·2, 95·3, hypoxanthine 91·5, 3·1, 88·4, guanosine 82·9, 1·9, 81·0, guanine 75·0, 2·0, 72·1, xanthine 73·5, 3·0, 70·5, allantoin 4·0, 1·7, 2·3, and guanidine carbonate 3·8, 1·8, 2·0. Thus, all except allantoin and guanidine are largely ppted. by the KI_3, and of these all except the betaine are largely retained in the Cu_2I_2 ppt. The N content of the latter should, however, be corrected for the 10—11% of betaine which remains.

P. S. Arup.

MELOUN, B.; KEIL, B.; SORM, F.

Amino acids and peptides. Part 9. Constitution of the peptide phalloidine; part 2 [in German with summary in Russian]. Sbor.Chekh.khim.rab. 19 no.1:153-161 F '54. (MLRA 7:6)

1. Otdeleniye organicheskoy biokhimii, Institut organicheskoy khimii Chekhoslovatskoy Akademii nauk, Praga. (Phalloidine)

Meloun, B.

CZECHOSLOVAKIA/The Equipment of Laboratories. Appliances. F

Abs Jour: Ref. Zhur.-Khimiya, 1958, No II, 36024

Author : V. Holeysovsky, O. Mikes, B. Meloun, J. Weisberger, Z. Svec.
Inst : Not given.
Title : Automatic Receiver of Fractions For Liquid Chromatography.

Orig Pub: Chem. listy, 1957, 51, No 5, 995-997.

Abstract: A description of a laboratory appliance for semi automatic and automatic separating of fractions at chromatography. The semi automatic appliance consists of a receiver, suspended to a beam and equilibrated for the required volume of the fraction. A Hg - contact of the signal installation is connected at the turn of the beam. The change of the receiver is effectuated man-

Card : 1/2

CZECHOSLOVAKIA/The Equipment of Laboratories. Appliances. F.

Abs Jour: Ref. Zhur.-Khimiya, 1958, No II, 36024.

ually. The automatic appliance consists of a rotating table with 32 receiving vessels. The change of receivers is effectuated with the aid of an electromotor turning the table. The electromotor enters into action periodically with the aid of a special time relay.

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Card : 2/2

VESELOUR, BEDRICH

Proteins. XI. Comparison of weakly basic peptides from partial hydrolysates of chymotrypsinogen and trypsin. Jiří Vaněček, Bedřich Meloun, and František Šorm (Czechoslov. akad. věd, Prague). *Chem. listy* 51, 1667–76(1957); cf. *C.A.* 51, 12158e.—Partial hydrolysis of chymotrypsinogen (I) and trypsin diisopropyl phosphate (II) (carried out by treating 5 g. of the protein with 150 ml. concd. HCl at 37° 6 days, dilg. with H_2O to 120 ml., evapg. to dryness in *vacuo* at 35°, and removing the residual HCl by repeated evapn. with H_2O), and combined electrophoresis at pH 7 in a 3-chamber app., descending paper electrophoresis at pH 5.6, and paper chromatography yielded a series of peptides, most of which are common both for I and II. The following peptides were identified from I and II, respectively: alanylhistidine (I, II), histidyl-3-sulfoalanine (I, II), phenylalanylhistidine (I), histidylphenylalanine (I), tyrosylhistidine (II), prolylhistidine (II), lysylglutamic acid (I, II), lysylglutamylleucine (I, II), lysylserine (I, II), lysylglycine (I, II), lysyl-3-sulfoalanine (I, II), 3-sulfoalanylglutamic acid (I, II), 3-sulfoalanylthreonine (I), 3-sulfoalanylvaline (I), 3-sulfoalanylserine (II).

CZECHOSLOVAKIA/The Equipment of Laboratories. Appliances. F.

Abs Jour: Ref. Zhur.-Khimiya, 1958, No II, 36027.

Author : O. Mikes, J. Vanecek, B. Meloun, B. Keil, V. Kostka, J. Kara.
Inst : Not given.
Title : Multiple-Chamber Appliance for the Preparative Electrophoresis.

Orig Pub: Chem. listy, 1957, 51, No 8, 1562-1569.

Abstract: A description of a modified multi-chamber appliance for the preparative zonal electrophoresis at the constant value of pH, in which are combined the advantages of a 3-chamber Svenson's appliance with those electrophoretical ones to the work in an auxiliary medium. A rectifier with a regulated voltage of 0-10,000 v serves as a source of tension.

Card : 1/1

CZECHOSLOVAKIA / Laboratory Equipment. Instruments, Theory, Construction and Use. F

Abs Jour : Ref Zhur - Khim., No 15, 1958, No 50139

Author : Meloun, B.; Mikes, O.
Inst : Not given
Title : Appliance for Depositing Samples in Paper Chromatography.

Orig Pub : Chem. listy, 1957, 51, No. 8, 1574-1575

Abstract : An appliance for depositing solutions in paper chromatography is described. The appliance consists of a little stand with a double cover (similar to a folder) and of a special air heater for drying the paper after the solution has been deposited. The paper is held within the cover of the stand. The solution to be investigated is deposited through a slit in the upper cover. After that the paper is quickly dried being pressedby heated air coming from the heater through a slit in the lower cover of the stand. -- V. Knosslova.

Card 1/1

MELOUN, B.; VANECEK, J.; SORM, F.

"Proteins. XLV. Comparison of arginine and lhsine peptides isolated from partial hydrolysates of chymotrypsinogen and trypsin."

p. 523 (Chemicke Listy, Vol. 52, no. 3, 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9, September 1958

McLoun, B.

CZ/8/52(82)/10-26/39

AUTHORS: Šorm, F., Keil, B., Holeyšovský, V., Meloun, B., Hlavů, O. and Vaněček, J.

TITLE: Proteins. XLIX. Comparison of the Microstructure of Chymotrypsinogen and Trypsinogen. Preliminary Communication (O bílkovinách. XLIX. Srovnání mikrostruktury chymotrypsinogenu a trypsinogenu. Předběžné sdělení)

PERIODICAL: Chemické Listy, 1958, Vol 52(82), Nr 10, pp 1992-1995 (Czechoslovakia)

ABSTRACT: This is a continuation of the discussion on the microstructure of proteins in which the authors draw on their own experimental results (previously published) and those of others. Attention is drawn to the repetition of certain peptide residues in the two proteins considered.
There are 3 tables and 34 references, 12 of which are Czech, 22 Western.

Card 1/2

ASSOCIATION: Biochemické oddělení, Chemický ústav, Československá akademie věd, Praha (Biochemistry Division, Institute of Chemistry, Czechoslovak Academy of Science, Prague)

SUBMITTED: March 13, 1958

Card 2/2

MELOUN, B.; HOLEYSOVSKY, V.; VANECEK, J.; KEIL, B.; SORM, F.

Proteins. LIII. Peptides of aspartic acid and glumatic acid isolated from a chymotrypsinogen hydrolysate. In English. Coll.Cz.Chem. 24 no.9:3002-3006 S '59. (EEAI 9:5)

1. Department of Biochemistry, Chemical Institute, Czechoslovak Academy of Science, Prague.
(Proteins) (Peptides) (Aspartic acid) (Glutamic acid) (Chymotrypsinogen)

VANECEK, J.; KEIL, B.; MELOUN, B.; SORM, F.

Proteins LIV. Isolation of some peptides from tryptic hydrolysates of chymotrypsinogen and diisopropylphosphoryltrypsin. In English. Coll.Cz.Chem. 24 no.9:3148-3153 S '59. (EEAI 9:5)

1. Department of Biochemistry, Czechoslovak Academy of Science, Prague.
(PROTEINS) (PEPTIDES) (CHYMOTRYPSINOGEN)
(TRYPSIN DIISOPROPYL PHOSPHATE)

VANECEK, J.; MELOUN, B.; KOSTKA, V.; KEIL, B.; SORM, F.

Proteins. LXI. Peptides isolated from peptic hydrolysate of chymotrypsinogen. Coll Cz Chem 25 no.9:2358-2368 S '60. (EEAI 10:9)

1. Institute of Organic Chemistry and Biochemistry Czechoslovak Academy of Science, Prague.

(Proteins) (Peptides) (Chymotrypsinogen)

SORM, F.; KEIL, B.; VANECEK, J.; TOMASEK, V.; MIKES, O.; MELOUN, B.; KOSTKA, V.; HOLEYSOVSKY, V.

Proteins. LXIII. Lower structures in the chains of proteins. Coll Cz chem 26 no.2:531-578 F '61. (EEAI 10:9)

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Science, Prague.

(Proteins)

(36)

Prague, Collection of Czechoslovak Chemical Communications, Vol 27, No 4, April 1962 (continued)

9. "Separation Methods for Natural Products. Part II. Enriched Diamond Separation and Double Withdrawal," [illegible] CIKAN, J. PITRA and V. PROCHAZKA, Research Institute of Natural Drugs, Prague; pp 832-842 (English article).

10. "Synthesization Experiments in the Group of Hypotensive Alkaloids. Part XXII. The Obtaining of the Alicyclic Component for the Synthesis of the Racemic 19-Methyl Analogue of Deserpidin," J. [illegible], B. KAKAC and L. BLAHA, Research Institute of Pharmacy and Biochemistry, Prague; pp 843-855.

11. "Synthesization Experiments in the Group of Hypotensive Alkaloids. Part XXIII. On the Synthesis of the Racemic 19-Methyl Analogue of Deserpidin," L. BLAHA, B. KAKAC and J. [illegible] of the Research Institute of Pharmacy and Biochemistry, Prague; pp 857-871.

12. "Cardiac Glycosides of Asclepias syriaca L. Part I. Isolation of the Caruictonic Glycosides," L. [illegible], S. BAUER, O. BAUEROVA and D. SIKL of the Chemical Institute at the Slovak Academy of Sciences, Bratislava; pp 872-881.

13. "On Proteins. Part LXVIII. Structure of Peptides Obtained by Peptic Hydrolysis of Chymotrypsinogen," V. KOSTKA, B. [illegible], J. VANECEK and F. SORM of the Institute of Organic Chemistry and Biochemistry, Prague; pp 882-894 (English article).

14. "Cardiac Glycosides of Asclepias syriaca L. Part II. The Structure of Syriogenin and of Its Glycosides," L. [illegible], S. BAUER, O. BAUEROVA and D. SIKL of the Department of the Biochemistry of Saccharides, Chemical Institute of the Slovak Academy of Sciences, Bratislava; pp 895-901.

15. "Nucleic Acid Components and Their Analogues. Part XVIII. Synthesis of Anomeric 9-(2-Deoxy-1-d-Glucosyl)adenines and of Their Anhydro-derivatives," J. J. K. NOVAK and F. SORM of the Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 902-905 (English article)

16. "A Note on the Investigation of the Antimicrobial Activity of 9-(Deoxy-1-d-Glucosyl)adenine," J. SKODA, J. [illegible] and F. SORM, Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 906-907 (English article).

17. "Study of the Decomposition of Sodium Ferrate Solutions," J. [illegible] of the Slovak Institute of Technology, Bratislava; pp [illegible]

MELOUN, B.

MELOUN, B.

CZECHOSLOVAKIA

MELOUN, B; KOSTKA, V; KEIL, B; SORM, F.

Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 10, 1963, pp 1749-2777

"On Proteins. LXXXIII. Peptides Isolated from the Peptic Digest of the Part of a Tryptic Hydrolysate of S-Sulpho-Chymotrypsinogen Insoluble in Acid Environment."

(4)

MELOUN, B.; KOSTKA, V.; KEIL, B.; SORM, F.

On proteins. Pts. 83-84. Coll Cz Chem 28 no.10:2749-2805 '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

DLOUHA, V.; NEUWIRTHOVA, J.; MELOUN, B. , [illegible]

On proteins. [illegible]

1, Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Flemingovo nam. 2, Prague.
Submitted June [illegible], 1961. [illegible] Advisory Board Chairman, "On Election of Czechoslovak [illegible]" [illegible]

CZECHOSLOVAKIA

KLUH, I; MORAVEK, L; JUNGE, J.M; MELOUN, B; SORM, F

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 1, January 1966, pp 152-165

"On proteins. Part 98: Peptides isolated from a chymotryptic digest of s-carboxymethyl-chymotrypsinogen."

CZECHOSLOVAKIA

MELOUN, B; KOSTKA, V; VANECEK, J; KLUH, I; SORM, F

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 1, January 1966, 321-335

"On proteins. Part 99: Peptides isolated from b- and c-chain of S-β-aminoethylcysteinyl dip-α-chymotrypsin."

CZECHOSLOVAKIA

DLOUHA, V; POSPISILOVA, D; MELOUN, B; SORM, F

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications; No 1, January 1966, pp 346-352

"On proteins. Part 100: Disulfide bonds of basic trypsin inhibitor from beef pancreas."

ACC NR: AP6031806 SOURCE CODE: BU/0011/65/018/009/0837/0840

AUTHOR: Rakadjieva, A.; Meloun, B.

ORG: Institute of Organic Chemistry, BAN

TITLE: Structure of certain peptides isolated from tryptic hydrolysate of dolphin myoglobin

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 9, 1965, 837-840

TOPIC TAGS: molecular structure, organic crystal, hydrolysis, chemical separation, filtration, organic chemistry

ABSTRACT: Following the determination of the primary structure of sperm whale myoglobin by A. B. Edmundson and C. H. W. Hirs (J. Mol. Biol., 5, 1962, 6, 663) numberous researchers began comparative study of the myoglobin of different animal species with the hope of uncovering the laws governing the structure of myoglobin molecules. The authors investigated the dophin myoglobin by subjecting the main crystal myoglobin component to hydrolysis with trypsin, separating the peptides (28 of them), and purifying them by filtration. The paper concludes by a comparison of these peptides with those from the sperm whale myoglobin. This paper was presented by Corresponding Member BAN B. Kourtev on 31 May 1965. Orig. art. has: 2 figures and 2 tables. [Orig. art. in Eng.] [JPRS: 34,518]

SUB CODE: 07 / SUBM DATE: 31May65 / OTH REF: 013

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CA

28

The fermentation of beet slices during the 1948-49 season. Petr Pavlas and O. Melounová-Häuslerová. *Listy Cukrovar.* 65, 201-2(1949); cf. C.A. 43, 6502*i*.— Extd. sugar-beet slices stored in silos during 1948 produced a surface fermentation which spread into the interior of the stock, produced heat, and became a self-limiting process in late stages. The spoiled slices showed a rise in the dry matter from 7.57 to 8.31%, a drop in pulp from 5.25 to 4.80%, a fall in the total acidity from 105 to 69 cc 0.1 *N* NaOH, and a decrease in the total N from 0.115 to 0.067%. Analyses from 13 regions showed a similar trend in chem. changes during storage. The process was not due to any abnormal flora or to any single factor but most likely to a prolongation of the many factors which are involved in storing slices in a silo. Frank Maresh

CA

28

The purification and the return of waters from the diffusion cells and beet presses. Petr Pavlas and O. Melounová-Häuslerová. *Listy Cukrovar.* 66, 1 (1949). —Because the cost of heating all waters is prohibitive and because the clarification of refuse waters at room temps. produces a sediment which filters poorly, the authors add an optimum amt. of lime to the water, allow the sediment to settle, remove about 80% of the clear water which they return to the diffusion cells. To the remaining 20% of turbid water they add addnl. lime, heat to 80°, sat. to neutrality, and filter. The sediment contains about 0% albumin and can be added to molasses and beet slices used for animal food. Frank Marsh

[illegible]-[illegible], [illegible]. Czechoslovakia [illegible]

with [illegible]

"Determination of reducing sugars by the methods of [illegible], of [illegible], and of Ofner."

Listy Cukrovar. 66, 65-7 (1[illegible]-50); Sugar Ind. Abstr. [illegible], [illegible] ([illegible]); cf. preceding abstr.

[illegible], C. Czechoslovakia [illegible]

with [illegible]

"Determination of invert sugar by the methods of [illegible], of [illegible], and of Ofner in the presence of sucrose."

Listy Cukrovar. 66, [illegible]–93 [illegible]; Sugar Ind. Abstr. [illegible], 3[illegible]; cf. following abstr; [illegible], C.A. [illegible]6, 369[illegible]; [illegible], C.A. 42, 4[illegible]e.

MELOUNOVA-HAUSLEROVA, O. Czechoslovakia CA:47:11776

"Purity of raw sugar as a criterion of quality."

Listy Cukrovar. 66, 111-13(1949-50); Sugar Ind. Abstr. 12, 54 (1950)

MELOUNOVA-HAUSLEROVA, O. Czechoslovakia CA:47:11772

with P. PAVLAS

"Purification of pulp-press water by liming and saturation."

Listy Cukrovar. 66, 135-7 (1949-50); Sugar Ind. Abstr. 12, 85-6 (1950)

MELOUNOVA-HAUSLEROVA, O. Czechoslovakia CA:47:11773

with P. PAVLAS

"Chlorination and return of pulp-press and diffusion waste waters." Listy Cukrovar. 68, 105-8 (1952); Sugar Ind. Abstr. 14, 136 (1952)

MELOUNOVA-HAUSLEROVA, O. Czechoslovakia CA:47:11766-767

with P. PAVLAS

"Purification of pulp-press waters by liming and saturation, in sugar factories."

Listy Cukrovar. 68, 129-31(1952); Sugar Ind. Abstr. 14, 136-7 (1952)

MELOUNOVÁ-HAUSLEROVÁ, O.

Chromatography of amino acids in diffusion juices. P. Pavlas and O. Melounová-Häuslerová. *Listy cukrovar.* 71, 93-5(1956). The amino acids and the amides were pptd. from the juices by mercuric acetate and $CaCO_3$. The ppt. was decompd. with H_2S. The filtrate was concd. and subjected to electrophoresis; the anode furnished aspartic and glutamic acids; the cathode, lysine, histidine, and arginine; and the neutral zone, serine, asparagine, glycine, threonine, glutamine, alanine, tyrosine, leucine, phenylalanine, and proline. The individual groups are eluated and the eluates subjected to 2-dimensional paper chromatography.
Jos. Lederer

MELOUNOVA- HAUSLEROVA.

The composition of sugar beet and juices from 1953-4 harvest. P. Pavlas and O. Melounová-Hlússlerová. *Listy Cukrovar.* 71, 185–00(1955).—The attn. pötti in 1953 was only 6% below the 34 years av., also it came at the desirable time. Thus the growth, sugar content, and sugar recovery were good.
Jos. Lederer

MELOUNOVÁ-HÁUSLEROVÁ O.

The composition of sugar beets and juices from the campaign 1954-55. F. Pavlas and O. Melounová-Häuslerová. *Listy Cukrovar.* 71, 201-7(1955).—The compn. is given. The composition of sugar beets and juices from the campaign 1955-1956. *Ibid.* 72, 105-11(1956).—The results of analyses of domestic sugar beets are tabulated. T. Jurecic

MELOUNOVA O. HÄUSLEROVA

Chromatographic and electrophoretic separation of amino acids in the diffusion and thick sugar-beet juices from the campaign 1954-56. P. Pavlas and O. Melounová-Häusler-ová. *Listy Cukrovar.* 72, 35-7(1956).—By 2-dimensional paper chromatograms of Czech. sugar-beet juices (developed with PhOH-H_2O 3:1, and BuOH-AcOH-water 4:1:5) the following were identified: aspartic and glutamic acids, serine, glycine, threonine, alanine, tyrosine, valine, phenylalanine, leucine, isoleucine, histidine, arginine, lysine, asparagine, glutamine, and in one instance proline. The amts. varied according to the source and processing conditions. Paper electrophoresis sepd. basic, acidic, and neutral amino acids which were subsequently developed by 1-dimensional paper chromatograms. At one end were formed distinct spots of glutaric and glutamic acids, and at the other were found lysine and histidine.

T. Jurecic

MELOUNOVA-HAUSLEROVA, OLGA.

Chromatographic analysis of amino acids from sugar-beet proteins. Petr Favlas and Olga Melounová-Hánslerová. *Listy Cukrovar.* 72, 247–53(1956); cf. *C.A.* 50, 13473a.—By paper chromatography were identified aspartic, glutamic, and γ-aminobutyric acids, cystine, serine, glycine, threonine, alanine, hydroxyproline, tyrosine, lysine, histidine, arginine, proline, valine, methionine, tryptophan, phenylalanine, leucine, and isoleucine. Pressed juice was treated with 3% Cl_3CCO_2H (I) giving a residue (II) representing 0.368% of the original juice (fraction A). The washings from II were divided into the ether (fraction C) and ether-ale. fraction (fraction B, 0.002% of II). Fraction A was washed 5 times with I, the washings were brought to pH of 5 with NH_4OH, and the residue from this treatment gave fraction D, 0.008% of II. The filtrate (III) from fraction A was likewise brought to pH of 5; the white-grayish residue, fraction E, was 0.054% of II. One hundred ml. of III and fraction E were transferred into 500 ml. of 96% ale. The sediment (fraction F) gave 0.016% of II. The acid hydrolysis was carried out with 6*N* HCl and heating at 105° for 24 hrs. The humic substances were filtered off, and the filtrate was evapd. in vacuum over KOH. The alkali hydrolysis was done with hot satd. $Ba(OH)_2$ at 125° for 24 hrs. Ba was pptd. with H_2SO_4, the filtrates were evapd. as above. Two-dimensional chromatograms were carried out on Whatman No. 1 filter paper with phenol-water (3:1) for elution in one, and butanol-AcOH-water (4:1:5) in the other direction. One-dimensional chromatograms were eluted with the latter mixt. Mixts. of pure amino acids were used for identification. In fraction A were found 17 amino acids (IV). Cystine was identified by oxidation to cysteic acid

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and by electrophoresis. Histidine was detd. with Pauly reagent. The alkali hydrolyzate of fraction A gave 13 IV, fraction B had similar compn. as fraction A. Fraction C had more IV with high R_f. Fractions D and E were similar to fraction A, but the former did not show cystine. In fraction F were found IV with predominantly low R_f. Aspartic and glutamic acids, alanine, valine, leucine, and isoleucine were the major components; cystine, γ-aminobutyric acid, methionine, phenylalanine, and tryptophan were present only in small amts. One fraction showed hydroxyproline. Two IV with very low R_f could not be identified.

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