

SOV/96-59-5-8/19

A New Type of Non-Tubular Regenerator for Gas-Turbine Installations

cold-rolled steel sheet is shown in Fig 2. Regenerator heating surfaces may be made by assembling these ribbed plates either as shown in Fig 3a or as shown in Fig 3b. In each case gas flows through the channels between one pair of sheets and air between the next pair of sheets and so on. The arrangement of headers is sketched in Fig 4. The units can be used to build up a regenerator heating surface which may be either rectangular or cylindrical. Regenerators based on this construction were designed for a gas turbine of 50 MW, the operating conditions of which are given. A sketch of the rectangular form of regenerator is given in Fig 5: two such units are required for a 50 MW turbine. The construction of the regenerator is described and performance and other relevant data are recorded in Table 2. A cylindrical regenerator in which the air is delivered to the outside of the cylinder is illustrated in Fig 6 and the construction is described. If necessary, the central part of the regenerator may be used to by-pass

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some of the gas. Performance and other useful data are given in the second part of Table 2. Other arrangements are, of course, possible and a sketch of a design with internal air supply is offered in Fig 7. It is concluded that ribbed-sheet surfaces have considerable possibilities for regenerator design. The types of regenerator described in the article are much cheaper and smaller than existing types. There is no special difficulty in manufacturing or assembling the new regenerators. There are 7 figures, 2 tables and 2 references, 1 of which is Soviet and 1 English.

ASSOCIATION: Vsesoyuznyy Teplotekhnicheskiy Institut (All-Union Thermo-Technical Institute)

Card 3/3

KLITIN, N.P., inzh.; NECHAYEV, V.A., inzh.; LOKSHIN, V.A., kand.tekhn.nauk

Results of testing the GTU-600-1.5 plate regenerator.
Teploenergetika 8 no.5:11-17 My '61. (MIRA 14:8)

1. Yushnoye otdeleniye Gosudarstvennogo tresta po organizatsii i
ratsionalizatsii elektrostantsiy; Khar'kovskiy tekhnologicheskiy
institut i Dneproenergo.

(Gas turbines)

KLITIN, N.P., insh.; LOKSHIN, V.A., kand.tekhn.nauk

Heat transfer and resistance of finned bundles. Teploenergetika
8 no.7:53-57 J1 '61. (MIRA 14:9)

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Gas turbines) (Air preheaters)

KLITIN, N.P., inzh.; LOKSHIN, V.A., kand. tekhn. nauk

Heat transfer and resistance of longitudinally ribbed pipes.
Teploenergetika 11 no.5:79-83 My'64. (MIRA 17:5)

1. Vsesoyuznyy teplotekhnicheskiy institut.

KLITINA, L.V.

Brief petrographic characterization of coals in the new deposits
of the Kama coal-bearing area. Izv.vys.ucheb.zav.; geol. i razv.
5 no.5:48-58 My '62. (MIRA 15:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy
institut (VSEGEI).
(Kama Valley--Coal--Classification)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723210003-3

KLITINA, N.A., inzh.

Waterproofer with a base of polystyrene resin. Sbor. trud. NII
po stroi. ASIA [Rosat.] no.6:65-72 '62. (MIRA 17:9)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723210003-3"

KLITINA, S.Ya., assistant

Oscillography in hypertension. Nauch. trudy L'vov. obl. tsrap. ob-za
no.1:131-135 '61. (MIRA 16:5)

1. Kafedra propedevticheskoy terapii Lekchennogo fakul'teta
L'vovskogo meditsinskogo instituta (zav. kafedroy - dotsent
V.I. Chernov).

(HYPERTENSION) (OSCILLOGRAPHY)

KLITINA, S.Ye.

Pheantine treatment in hypertension. Nauch. trudy L'vov. chi. terap.
ob-va no.1:271-274 '61. (MIRA 16:5)

1. Kafedra propedevticheskoy terapii lechebnogo fakul'teta L'vov-
skogo meditsinskogo instituta (sav. kafedroy - dotsent V.I.
Chernov).

(HYPERTENSION) (NICOTINAMIDE)

PETROV, I.T.; POVKH, B.V.; BLIKHARSKIY, B.A.; CHERNOV, V.I. [deceased];
KLITINA, S.Ye.; ROZANOV, Ye.M.; SHUFLAT, A.N.

Incidence of influenza and acute cararrhs of the upper respiratory tracts in miners of Chervonograd, Lvov-Volyn' Basin. Vrach.
delo no.1t105-109 Ja'64
(MIRA 17:3)

1. Chervonogradskaya mediko-sanitarnaya chast' kombinata Ukrzapadugeol' (for Petrov, Povkh, Blikharskiy). 2. Kafedra propedevticheskoy terapii lecheniogo fakul'teta - sav.
doktor V.I.Chernov [deceased]) Lvovskogo meditsinskogo instituta (for Klitina, Rozanov, Shuflat).

PLOSHKO, V.V.; KLITIMA, V.I.

Polymetamorphism of geosynclinal basite series within the
Cambrian-Silurian greenstone layer in the Little Laba Valley.
Trudy IZEM no.77:225-256 '62. (MIRA 16:2)
(Laba Valley--Metamorphism (Geology))
(Laba Valley--Greenstone)

ALIMARIN, I.P.; SUDAKOV, F.P.; KLITINA, V.I.

Extraction of heteropoly compounds and its use in inorganic analysis. Usp. khim. 34 no.8:1368-1387 Ag '65.

(MIRA 18:8)

L 34375-66 EWT(m)/EWP(t)/ETI IJP(c) JD
ACC NR. AP6010717

SOURCE CODE: UR/0189/66/000/001/0098/0100

Y5
B

AUTHOR: Sudakov, F. P.; Kitina, V. I.; Maslova, N. T.

ORG: Analytic Chemistry Department, Moscow State University (Kafedra analiticheskoy
khimi, Moskovskiy gosudarstvennyy universitet)

TITLE: Extractive photometric determination of phosphorus and silicon in the form of
their reduced heteropoly acids

SOURCE: Moscow. Universitet. Vestnik. Seriya II. Khimiya, no. 1, 1966, 98-100

TOPIC TAGS: phosphorus, silicon, phosphorus compound, molybdenum compound, silicon
compound, photometric analysis

ABSTRACT: An attempt was made to develop selective and sensitive methods of determining phosphorus and silicon by combining extraction with reactions of reduction of phosphomolybdic acid (PMA) and silicomolybdic acid (SMA) by stannous oxalate. The reduction products of PMA and SMA, obtained at both pH 1.8 and pH 5.0, are satisfactorily extracted with oxygen- and nitrogen-containing extractants, and their extractability depends strongly on the acidity of the aqueous phase, nature of the extractant, and other factors. As a rule, the extractability of reduced PMA and SMA improves with increasing acidity, but optimum conditions exist at pH 5.0. The extracts are stable with time and obey Beer's Law. The most suitable method for determining phosphorus

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UDC: 541.14 + 541.15 + 772/773

Card 2/2 APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723210003

KLITINA, V.I.; SUDAKOV, F.P.; ALIMARIN, I.P.

Extraction of reduced phosphomolybdic acid with oxygen-containing solvents. Zhur. anal. khim. 20 no. 11:1145-1152
'65
(MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.
Submitted October 14, 1964.

DOLENKO, O.N.; KLITOCHNIKO, I.P.

Structure of the "Delina oil field. Geol.sber. [Lvov] no.2/3:273-
280 '56.
(MLRA 10:3)

1. Institut geologii polesnykh iskayayemykh AN USSR, Lvov.
(Delina--Petroleum geology)

ARSIRIY, Yu.A.; BLANK, M.I.; BLIZNTUK, V.F.; GLUSHKO, V.V.;
KLITOCHENKO, I.P.; LITVINOV, V.R.; PALIY, A.M.; PAN'KIV, A.M.;
PISTRAK, R.M.; CHERPAK, S.Ye.; CHIRVINSKAYA, M.V.; YARCIHENKO, L.H.

Plan for the areal study of the Dnieper-Donets Lowland. Trudy
VNIIIGAZ no.14:3-17 '62. (MIRA 15:5)

(Dnieper-Donets Lowland—Petroleum geology)
(Dnieper-Donets Lowland—Gas, Natural—Geology)

Kh. Dachkovskiy

GONTA, Timofey Timofeyevich; GORNV, Nikolay Alekseyevich; KLITOCHENKO,
Ivan Filippovich; MIKHAYLOV, Konstantin Fedorovich; DUBROVINA, N.D.,
vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Petroleum and natural gas in the Ukraine] Neft' i prirodnyi gas
Ukrainy. Moskva, Gos.sauuchno-tekhn. izd-vo neft. i gorno-toplivnoi
lit-ry, 1957. 78 p. (MIRA 11:1)
(Ukraine--Petroleum) (Ukraine--Gas, Natural)

KLITOCHENKO I.P.

VISOTSKIY, I.V.; YEREMENKO, N.A.; KLITOCHENKO, I.P.; KORMILYUK, Yu.I.
MAKSIMOV, S.P.

Classification of drilled wells. Geol. nefti 1 no.8:8-12 Ag '57.
(MIRA 10:12)
(Oil wells--Classification)

KLITOCHENKO, I.F.; MUROMTSEV, A.S.; BARANOV, I.O.; MARTINOV, A.A.

Oil-and gas-bearing prospects of the eastern part of the Dnieper-
Donets Lowland. Geol. nefti 1 no.9:1-7 8 '57. (MIRA 10:9)
(Dnieper Lowland--Petroleum geology)
(Dnieper Lowland--Gas, Natural--Geology)
(Donets Basin--Petroleum geology)
(Donets Basin--Gas, Natural--Geology)

KLITOCHENKO, I.
BURSHTR, M.S., KLITOCHENKO, I.P.

Geological structure and oil- and gas-bearing prospects in the
northern Black Sea and Azov regions. *Oeol.nefti* 1 no.10:1-8 0 '57.
(MIRA 10:10)

1. Vsesoyusnyy nauchno-issledovatel'skiy geologo-rasvedochnyy neftyanyy
institut, Ob'edineniya "Ukrneft'."
(Black Sea region--Petroleum geology)
(Black Sea region--Gas, Natural--Geology)
(Azov region--Petroleum geology)
(Azov region--Gas, Natural--Geology)

OLUSHKO, V.V.; KLITOCHENKO, I.P.; MAKSIMOV, S.P.

Comparative estimation of oil and gas potentials of the Ukrainian
S.S.R. Geol. nefti Supplement to no. 7:21-33 '58. (MIRA 11;8)
(Ukraine--Petroleum geology)
(Ukraine--Gas, Natural--Geology)

KL10CHENKO, I.T.

3(5)

PHASE I BOOK EXPLOITATION

SOV/2682

Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut

Voprosy poiskov, razvedki i dobychi nefti i gaza na territorii USSR; doklady na vyyezdnoy sessii uchenykh sovetov VNIGNI i VNIIL, prokhodivshay v g. Lvove v maye 1957 g. (Problems in the Exploration and Production of Oil and Gas in the Ukrainian SSR; Reports Presented at a Session of the Scientific Councils of the All-Union Petroleum Scientific Research Institute for Geological Survey and the All-Union Scientific Research Institute, in Lvov, May 1957) Moscow, Gostoptekhizdat, 1959. 282 p. 1,000 copies printed.

Additional Sponsoring Agency: USSR. Ministerstvo geologii i okhrany nedr.

Eds.: I. G. Baranov, V. V. Glushko, and A. S. Mironov; Executive Eds.: S. M. Yungans, and A. I. Zaretskaya; Tech Ed.: I. G. Fedotova.

PURPOSE: This book is intended for petroleum geologists and Ukrainian area specialists.

COVERAGE: This book contains 27 reports originally read at a meeting of the scientific councils of the VNIGNI (All-Union Petroleum Scientific Research Institute for Geological Survey), the VNIIL (All-Union Scientific Research

Card 1/4

Problems in the Exploration (Cont.)	SOV/2682
Safarov, I. P. Differentiating the Productive Series of the Dolina Deposit	106
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Card 4/7

BONDARCHUK, V.G., akademik, otcv.red.; PORFIR'YEV, V.G., akademik, red.; KOZIN, Ya.D., doktor geol.-miner.nauk, red.; KAPTARENKO-CHERNOUL-SOVA, O.K., doktor geol.-miner.nauk, red.; SHUL'GA, P.L., doktor geol.-miner.nauk; KLIMENKO, V.Ya., kand.geol.-miner.nauk, red.; MOLYAVKO, O.I., kand.geol.-miner.nauk, red.; KLITOCHENKO, I.P., red.; MUROMTSEV, A.S., red.; MUKHIN, A.V., red.; CHERPAK, S.N., red.; MANVELOVA, K.K., mladshiy nauchnyy sotrudnik, red.; MEL'NIK, A.F., red.izd-va; MILASHIN, I.D., tekhn.red.

[Geology, and oil and gas potentials of eastern regions in the Ukraine; proceedings of the conference on oil and gas potentials of the Ukraine] Geologicheskoe stroyenie i neftegazonosnost' vostochnykh oblastei Ukrayiny: trudy nauchno-proizvodstvennogo soveshchaniia po problemam neftegazonosnosti Ukrayiny, 27 fevralia - 3 marta 1956 g. Kiev, 1959. 436 p. (MIRA 13:3)

1. Akademiiia nauk URSR, Kiev, Instytut geologichnykh nauk.
 2. AN USSR (for Bondarchuk, Porfir'yev). 3. Glavnnyy geolog ob"yedineniya "Ukrneft'" (for Klitochenko). 4. Direktor Ukrainskogo otdeleniya Vsesoyuznogo nauchno-issledovatel'skogo geologo-rasvedochnogo neftyanogo instituta (VNIGRI) (for Muromtsev). 5. Glavnnyy inzhener tresta "Ukrneftegeofizika" (for Mukhin). 6. Glavnnyy geolog tresta "Ukrivostoknefterasvedka" (for Cherpak). 7. Institut geologicheskikh nauk AN USSR (for Manvelova).
- (Ukraine--Petroleum geology) (Ukraine--Gas, Natural--Geology)

14(5)

SOV/9-59-7-3/15

AUTHORS: Dolenko, G.N., and Klitochenko, I.F.

TITLE: Oil and Gas Possibilities of the L'vovskiy Paleozoic Depression

PERIODICAL: Geologiya nefti i gaza, 1959, Nr 7, pp 12 - 15 (USSR)

ABSTRACT: Information is given on singling out of gas and oil bearing zones in the L'vovskiy depression, by using available geological and geophysical data. The L'vovskiy depression is characterized by strong tectonic deformations which caused the formation of complicated substructures and faults, accompanied by terrace-shaped elevations. There are three main faults: The Kalush-Nemirovskiy fault accompanied by the upheaval zone of the so-called marginal plateau elevation; the L'vovskiy fault accompanied by the zone of the L'vovskiy terrace-shaped elevation and the Kameno-Bugaskiy fault accompanied by the Milyatin-Kulichkovskiy upheaval zone. The mentioned faults can be referred to the type of plutonic breaks which are characterized by considerable extension and depth and by a prolonged development period extending over whole geological stages. This continuous development entailed changes of the rock thicknesses and the introduction of terrigenous components into the sedimentary series. In zones of extended plutonic break cracks

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SOV/9-59-7-3/15

Oil and Gas Possibilities of the L'vovskiy Paleozoic Depression

were formed in the strata which improved collecting properties of stratigraphic horizons and the development of local structures. This furthered the formation of gas and oil fields. Plutonic breaks had a particular importance since they apparently formed passages for oil migration from the areas of origin into trap structures enclosing the rock-collectors. These conducts were situated in areas of maximum deformation. It is concluded that best gas and oil possibilities in the L'vovskiy Paleozoic depression existed in the marginal plateau zone and in the Milyatin-Kulichkovskiy upheaval. These areas possess all necessary conditions for oil and gas formation, such as rock-collectors, trap structures and disjunctive deformations, forming passages for oil migration. This opinion is supported by other scientists including O.Kh. Dikenshteyn (Ref 3, 4), D.P. Naydin (Ref 5), V.V. Glushko, I.P.

Card 2/3

KLITOCHENKO, I.P.

Results of oil and gas prospecting in the Ukrainian S.S.R. in 1960
and prospecting outlook for 1961. Geol. nefti i gaza 5 no. 5:1-6
My '61. (MIRA 14:1)

1. Glavgeologiya USSR.
(Ukraine—Petroleum geology) (Ukraine—Gas, Natural—Geology)

GUREVICH, B.L.; KLITOCHENKO, I.F.; CHIRVINSKAYA, M.V.

Oil and gas prospecting trends in the Black Sea region. Geol.
nefti i gaza 5 no.6:6-10 za '61. (MIRA 14:6)

1. Trest Ukrgeofizrazvedka, Glavgeologiya USSR.
(Black Sea region--Petroleum geology)
(Black Sea region--Gas, Natural--Geology)

KLITOCHENKO, I.F.; PALIY, A.M.

Results of geological prospecting in the Ukrainian S.S.R. for
1961. Geol.nefti i gaza 6 no.519-16 My '62. (MIRA 1515)

1. Glavnoye upravleniye geologii i okhrany nedr pri Sovete
Ministrov USSR.
(Ukraine—Petroleum geology) (Ukraine—Gas, Natural—Geology)

BROD, I.O.; VITRIK, S.P.; GORDIYEVICH, V.A.; JLITOCHENKO, I.F.
KOSOROTOV, S.P.; PALIY, A.M.; POPOV, V.S.

Evaluating the results and the measures for improving prospecting
for oil and gas fields in the Ukraine. Geol.neft i gaza 6
no.10:1-12 O '62. (MIRA 15:12)

1. Glavnaya upravleniya geologii i okhrany nedr pri Sovete
Ministrov UkrSSR, Ministerstvo geologii i okhrany nedr SSSR i
Moskovskiy gosudarstvennyy universitet.
(Ukraine—Petroleum geology)
(Ukraine—Gas, Natural—Geology)

KLITOCHENKO, I.P.; ANTSUPOV, P.V.; VUL', M.A.

Prospects of oil and gas in the Pokutye section of the Carpathians.
Geol.neft i gaza 6 no.10:13-17 O '62. (MIRA 15:12)

1. Glavnaya upravleniya geologii i okhrany nadr pri Sovete
Ministrov UkrSSR i Ukrainskiy nauchno-issledovatel'skiy
geologorazvedochnyy institut.

(Pokutye region—Petroleum geology)
(Pokutye region—Gas, Natural—Geology)

KLITOCHENKO, I.P.; SAMBORSKIY, N.A.

New data on box folds in the Dnieper-Donets Lowland. Geol.
nefti i gaza 7 no.8:30-35 Ag '63. (MIRA 16:10)

1. Trest Poltavaneftegazrazvedka.

GLUSHKO, Vasiliy Vasil'yevich; KLIUCHENKO, Ivan Filippovich;
KRAMARENKO, Vladimir Nikolayevich; MAKSIMOV, Stepan
Pavlovich; CHIRVINSKAYA, Marina Vladimirovna;
OVCHINNIKOVA, S.V., red.; VORONOVA, V.V., tekhn. red.

[Geology of oil and gas fields in the Ukrainian S.S.R.]
Geologija neftianykh i gazovykh mestoroshdenii Ukrainskoj SSR. Moakva, Gostoptekhizdat, 1963. 314 p.

(MI.A 1712)

AGISHEV, A.P.; KLITOZHNIKO, I.P.; LANKOV, I.Ya.; FALIY, A.N.; STERLIN, B.P.;
TCHORZEVSKIY, S.A.; TKACHISHIN, S.V.

New gas-bearing area in the southeastern section of the Infeper-
Donets Lowland. Gaz. prom. 2 no.12:4-6 '63 (MIRA 18:2)

CHIRVINSKAYA, M. V.; KRAMARENKO, V. N.; KLITOCHENKO, I. F.

"Tectonic and facies conditions as a factor of oil and gas accumulation
in the Ukrainian SSR."

report submitted for 22nd Sess, Intl Geological Cong, New Delhi, 14-22
Dec 1964.

KLITOCHENKO, I.F.; PALIY, A.M.

Results of geological prospecting for oil and gas in the
Ukraine for 1963. Geol. nefti i gaza 8 no.4:4-9 Ap '64.
(MIRA 17:6)
1. Glavnoye upravleniye geologii i okhrany nedor pri Sovete
Ministrov UkrSSR.

BLIZNYUK, V.F.; GAVRISH, V.K.; GRITSAY, Ye.T.; KEL'BAS, B.I.; MLITOCHENKO, I.P.;
MARTYNOV, A.A.; PALIY, A.M.; POPOV, V.S.; SHATKIN, I.M.; YARCHENKO, L.M.

Stratigraphic boundaries and oil and gas potentials of the
Upper Cretaceous sediments in the Dnieper-Donets Lowland.
Geol. nefti i gaza 8 no.4:28-35 Ap '64. (MIRA 17:6)

1. Glavnoye upravleniye geologii i okhrany nedr pri Sovete
Ministrov UkrSSR, Kiyevskaya ekspeditsiya tresta Ukrgeofizrasvedka,
Kiyevskaya ekspeditsiya Ukrainskogo nauchno-issledovatel'skogo
geologorazvedochnogo instituta i Chernigovskaya ekspeditsiya
Ukrainskogo nauchno-issledovatel'skogo geologorazvedochnogo
instituta.

KLIUTOCHENKO, I.F.; KRAJARENKO, V.N.; PALTY, Z.M.

Brief digest of the history of the development of petroleum production
in the Ukraine. Geol. nefti i gaza 8 no.9:32-37 3 '64. (MIRA 17:11)

l. Glavnym upravleniyem geologii i okhrany nedor pri Sovete Ministriv
UkrSSR i Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy
institut.

BALUKHOVSKIY, N.P.; GAVRISH, V.K.; ALITOCHENKO, I.Y.; POPOV, V.S.

Concerning the super-deep Dnieper-Donets oil well. Neft, i gas,
prom. no. 413-6 O-D '64
(MIRA 18:2)

VASIL'YEV, V.G.; VOROB'YOV, E.S.; DUDKO, N.A.; ZIL'BERMAN, V.I.; KLITOCHENKO,
I.F.; LITVINOV, V.R.; TKHORZHEVSKIY, S.A.; CHERNAK, S.I.

Present status of and prospects for the development of the production of natural gas in the eastern Ukrainian oil- and gas-bearing region. Gaz. prom. 10 no.4:1-6 '65.

(MIRA 18:5)

KLITCENKO, I.F.

Oil and gas prospecting in the Ukrainian S.S.R.; results for
1964 and problems for 1965. Geol. nefti gaza 9 no.6:1-4 Je
'65.
(MERA 18:8)

1. Glavnoye upravleniye geologii i okhrany nedr pri Sovete
Ministrov UkrSSR.

KOROLEVA, R.I.; GDALEV, V.M.; SHVARTZ, A.L.; KLETOVICH, I.F.;
CHIRVINSKAYA, N.V.

Buried fuel-tube structures in the southern part of the
Dnepropetrovsk Basin. Geol. naffti i gazu; no. 5:16-32 Je
'65. (MFA 12:3)

I. Ukrainskiy nauchno-issledovatel'skiy geologicheskiy shchit
institut, Kiev; Glavnaya upravleniya gosudarstvennoi i ohrany nadzor pri
Sovete Ministrov SSSR i treter Upravleniiye.

KLITOCHENKO, I.T.

Results of and further trends in geological prospecting for oil
and gas. Geol.shur.22 no.1:3-13 '62.
(MIRA 15:2)

1. Glavnoye geologo-razvedochnoye upravleniye USSR.
(Ukraine—Prospecting)

L 46010-66 EWT(1) ?W

ACC NR: AR6029454

SOURCE CODE: UR/0169/66/000/005/D017/D017

AUTHOR: Andreyeva, R. I.; Gdalevskaya, Ts. M.; Lositskaya, Ye. P.;
Klitochenko, T. I.; Marchenko, A. P.; Razumenko, G. F.; Sokolova, N. T.;
Chayka, V. G.

TITLE: Compilation of composite seismic maps of the southeastern part of the
Dnepr-Donets basin

SOURCE: Ref. zh. Geofizika, Abs. 5D115

REF SOURCE: Tr. Ukr. n.-i. geologorazved. in-t, vyp. 14, 1965, 132-139

TOPIC TAGS: Dnepr basin seismic map, Donets basin seismic map

ABSTRACT: A second interpretation is made of seismic data obtained for the
southeastern part of the Dnepr-Donets basin, using supplementary data obtained
in drillings. Structural maps to the scale of 1:50,000 and 1:100,000 are plotted
for four horizons, from the Cenomanian to the Lower Permian. Iso-pachous line
maps, plotted on the basis of data obtained in seismic exploration, are also
discussed. A detailed analysis is made of the tectonic structure of the Upper
Paleozoic, Mesozoic, and Cenozoic stages on the basis of the above-mentioned

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UDC: 550.834

L 46010-66

ACC NR: AR6029454

maps. A regional subdivision is made of the territory from the point of view of natural gas and petroleum deposits. A. Titkov. [Translation of abstract] [SP]

SUB CODE: 08/

Card 2/2 MT

1. KLITROV, F. M., M. D.
2. USSR (600)
4. Limberg, A. A.
7. In answer to Prof. A. A. Limberg's article, "Geometric and biologic aspects in repair of external nose with twisted and doubled flat skin graft." Stomatologija no. 4 1952
9. Monthly List of Russian Accessions, Library of Congress, February 1953.
Unclassified.

KLITSA, B., red.; SKVORTSOVA, L., tekhn.red.

[For technological progress in industry] Za tekhnicheskii
progress v promyshlennosti. Kostroma, Kostromskoe knizhnoe
izd-vo, 1960. 85 p. (MIRA 14:1)
(Kostroma--Industries) (Technological innovations)

SOKOLOV, Konstantin Nikolayevich; KLITSA, B., red.; SKVORTSOVA, L., tekhn.
red.

[Masters of biological desiccation] Mesterya biologicheskoi suszki.
Kostroma, Kostromskoe knishmoe izd-vo, 1960. 25 p. (MIRA 14:10)
(Lumber--Drying)

DVORNIKOV, Makar Matveyevich; KLITSA, B., red.

[Mechanization of free floating drive; from practices of
the Makar'ev Floating Station] Mekhanizatsiya solevogo
splava; iz opyta Makar'evskoi splavnoi kontroy. [n.p.]
Kostromskoe knizhnoe izd-vo, 1963. 38 p. (VTKA 18:9)

KLITSA, Z.L.

Metallurgical Abst.
Vol. 21 May 1954
Electrometallurgy and Electrochemistry

"Rate of Decomposition of Sodium Amalgam in Alkaline Solutions." G. I. Veltsov and Z. L. Klitsa (Edir. Printed. Khm., 1953, No. 1), 154-159 (Russian). V. Appl. Chem. U.S.S.R., 1952, No. 2), 163-167, 253 (in English). The rate of decompos. was determined by measuring the current flowing in a short-circuited graphite/amalgam cell, by a compensation method. The alkali soln. was prepared by diluting 50% NaOH, obtained by electrolysis of NaI with a Hg cathode. Values (i.e. for a 0.1% Na amalgam in NaOH soln. (44-78%) at 30°-90° C. and for 0.1% Na amalgam in soln. containing 40% (at 30° C.) to 91.6% NaOH (at 200° C.) are updated. Difficulty was experienced in obtaining reproducible results, because of the sensitivity of the graphite electrode to contamination. The results are discussed in terms of the operating conditions of amalgam-decomposing cells. - G. V. P. T. 54

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723210003-3

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723210003-3"

KLITSENKO, I. T.

KLITSENKO, I. T. -- "The Effect of Salt (NaCl) Nutrition on the Metabolism and Productivity of Dairy Cows." Min Higher Education Ukrainian SSR. Ukrainian Order of Labor Red Banner Agricultural Academy. Kiev, 1955. (Dissertation for the Degree of Candidate in Agricultural Sciences)

SO: Knizhnaya Letopis', No 1, 1956

KOLONIY, Vladimir Panteleymonovich, kand.biolog.nauk; KLITSENKO, O.T.
[Klytsenko, H.T.], oty.red.; GURENKO, V.A. [Hurenko, V.A.], red.

[Ways of increasing livestock production; practices of the
"Pamiat' Lenina" Collective Farm, Cherkassy District, Cherkassy
Province] Na shliakh zbil'shennia vyrobnytstva produktiv
tvarynnystva; z dosvidu kolhospu "Pam'iat Lenina" Cherkas'koho
raionu Cherkas'koi oblasti. Kyiv, 1960. 39 p. (Tovarystvo dlia
poahryennia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser.6,
no.5).

(Cherkassy District--Stock and stockbreeding)

KLITSENKO, O.T. [Klitsenko, O.T.], kand.sci'skokhosa ystvennykh nauk

Preparation of coarse fodder. Mauka i shytia 10 no.1:
21-23 Ja '60. (MIRA 13:6)
(Feeds)

KLITSENO, I.I.; POPOV, V.P.

Saturation irrigation of crops. Visnyk AN UkrSSR 24 no.10:
61-62 O '52. (MLRA 9:9)

(Irrigation)

KLITSENKO, S.

Klitsenko, S. Feeding pigs with corn, Tr. from the Russian. p. 28.

Vol. 10, no. 10, Oct. 1955 KOOPERATIVNO ZEMELIE Sofiya, Bulgaria

SO: Monthly List of East European Accessions, (EkAL), LC, Vol. 5, No. 2
February, 1956

KLITSENKO, S. T.

Klitsenko, S. T. "The preparation and use of combined corn silage in raising and fattening pigs." Min Higher Education Ukrainian SSR. Khar'kov Zootechnical Inst. Khar'kov, 1956. (Dissertation for the Degree of Candidate in Agricultural Science)

So: Knizhnaya letopis', No. 27, 1956. Moscow, Pages 94-109; illi.

USSR/Farm Animals. The Swine

Q-4

Ab. Jour : Rof Zhur - Biol., No 11, 1958, No 50058

Author : Klitronko S.T.

Inst

Title : The Significance of Combined Silage Fodder for Raising and Fattening of Pigs.

Orig Pub : Zhivotnovodstvo, 1957, No 5, 50-52

Abstract : The 1st group of young pigs were fed silage containing 50 percent of milky-waxy corn ears, 30 percent of boiled potatoe, 15 percent of squash, and up to 5 percent of alfalfa chaff. The 2nd group received 40 percent of corn silage (strike and ears) and 60 percent of squash. The 3rd (control) group were given the usual ration, i.e., standard ration for the given farm. During the fattening period, the weight gains which were achieved until forty and sixteen months were recorded in the animals, amounted to 521, 511, and 526 kg per each of the 3 groups, respectively. Digestibility coefficients for each of the 3 groups were as follows:

Card : 1/2

Card : 2/2

50

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CIA-RDP86-00513R000723210003-3

COUNTRY : USSR

CATEGORY : Cultivated Plants - Forage Crops.

M

ABG. JOUR. : Rof Biol., No.14, 1958, №.63466

AUTHOR : Gorb, T. V., Klitzenko, S. T.

INST. : Kharkov Zootechnical Institute

TITLE : Yields, Chemical Composition and Food Value of Corn During Different Stages of Vegetation.

ORIG. PUB. : 3b. tr. Khar'kovsk. zootekh. in-ta, 9, 43-56 1957

ABSTRACT : In 1956, productivity, dynamics of the chemical composition and the food value of the corn variety Khar'kovskaya 23 were studied during different stages of vegetation. During the stage of the emergence of the tassels, 246 c of raw mass and 30 c of dry matter were secured from 1 ha; at the stage of wax ripeness - 325 and 95 c respectively. Corn contains the highest amount of food units and digestible protein in the period of the full ripeness of the kernel. Carotene is concentrated chiefly in the leaves of corn; vitamin C - in the leaves and stems. The amount of carotene

Card: 1/2

COUNTRY	:	USSR
CATEGORY	:	Cultivated Plants - Forage Crops.
ART. NO.	:	248811, No. 14, 1958, N. 63/64
REF. NO.	:	
L. ST.	:	
TITLE	:	
CONT. NO.	:	
ABSTRACT	:	The corn in the period of full ripeness of the kernels is 1/11 of the amount at wax-stage of maturity. With the preparation of corn for silage at wax-stage, more nutrients are obtained than at the milky-stage of ripeness. --- Io. A. Okorokova
Card: 2/2		

KLIJTSKAYA, N.A.

Parcvarian cyste. Sovet. med. 27 no.9:97-100 S:63

(MIRA 17:2)

1. Iz ginekologicheskoy kliniki (sav. - kand. med. nauk M.S. Tsirulnikov) Moskovskogo nauchno-issledovatel'skogo instituta skoroy pomoshchi imeni N.V.Sklifosovskogo (dir. - zasluzhennyy vrach UkrSSR M.M.Tarasov).

KLITSUNOV, V. I. inshener.

Practical training of electromechanical engineers. Besop, truda
v prom. 1 no. 7:11-12 J1 '57. (NIRA 10:7)
(Electrical engineering--Study and teaching)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723210003-3

KLITSUMOV, V.I., insb.

Cranes at exhibitions in Moscow. Bessep. truda v prom. 1 no. 12:19-21
D '57. (MIRA 12:3)
(Moscow--Cranes, derricks, etc.--Exhibitions)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723210003-3"

KAPELYUSHNIKOV, G.I., insh.; KLITSUMOV, V.I., insh.

Injuries caused by electric current and measures for their
prevention. Besop, truda v prom. 3 no.5:4-7 № '59.
(MIRA 12:8)
(Electricity in mining--Safety measures)

KLITSUNOV, V.I., inzh.

Achievements of the foremost mine in the Moscow Basin. Borop. truda
v prom. 2 no. 6:25-27 Ja '58.
(MIRA 11:?)
(Moscow Basin--Coal mines and mining--Safety measures)

DOLOTOV, N.P., inzh.; ZASLAVSKIY, P.M., inzh.; KLITSUNOV, V.I., inzh.

Observe safety requirements in designing machines and mechanisms.
Bezop. truda v prom. 2 no.7:15-16 J1 '58. (MIRA 11:9)
(Coal mining machinery)

KAPLYUSHEKOV, German Isaakovich; KILITSUNOV, Viktor Ignat'yevich;
MIRSKAYA, V.V., red.izd-va; SHILYAR, S.Ya., tekhn.red.;
BOLDIREVA, Z.A., tekhn.red.

[Safety in the use of electricity in mining] Bezopasnoe pri-
menenie elektricheskoi energii v shchakte. Moskva, Gos.suchno-
tekhn.izd-vo lit-ry po gornomu delu, 1960. 50 p.

(MIRA 14:2)

(Electricity in mining--Safety measures)

TYURKYAN, Raffi Arsenakovich; GORLOV, Petr Ivanovich; ZORI, Anatoliy Stefanovich; AFONCHENKO, Vladimir Vasil'yevich; KLITSUNOV, V.I., otv. red.; GORELKOV, L.V., red. izd-va; LOMILINA, L.N., tekhn. red.; IL'INSKAYA, O.M., tekhn. red.

[Information for worker on vertical shafts, shaft bottoms, and chambers] Pamiatka prokhodchika vertikal'nykh stvolov, okolostvol'-nykh dvorov i kamер. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1960. 71 p. (MIRA 14:7)

(Shaft sinking)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723210003-3

KLITSUMOV, V.I., insh.

Valuable initiative of Aleksei Kalinin's brigade. Besop.
truda v prom. 4 no.3:23-25 '60. (MIRA 13:6)
(Kusnetsk Basin--Coal mines and mining--Safety measures)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723210003-3"

KAPELYUSHNIKOV, G.I., inzh.; KLITSUNOV, V.I.

Measures for preventing underground fires caused by electricity.
Besop.truda, v prom. 4 no.614-6 Je '60. (MIRA 14:3)
(Electricity in mining—Safety measures)

KLITSUNOV, V.I., insh.

Technological development in Altai mines. Besop.truda v
prom. 4 no.7:26-28 Jl '60. (MIRA 13:8)
(Altai Mountains--Mining engineering)

KLITSUMOV, V.I., inzh.

Conference on preventing coal and gas outbursts in mines. Bezop.
truda v prom. 5 no. 2:36-38 F '61. (MIL 14:2)
(Mine accidents--Safety measures--Congresses)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723210003-3

KLITSUNOV, V.I., inzh.

Sanitary and safe working conditions for miners. Bezop. truda v
prom. 5 no. 3:36 Mr '61. (MIRA 14:3)

(Mine sanitation)
(Mining engineering—Safety measures)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723210003-3"

BRDGADZE, T.V., inzh.; KLITSUNOV, V.I., inzh.

Increase the responsibility for safe working conditions for miners.
Besop, truda v prom. 5 no.9:13-14 S '61. (MIRA 14:10)
(Mining engineering--Safety measures)

KLITSUNOV, V.I., inzh.

Activity of a regional office of the State Mine Inspection.
Bezop. truda v prom. 6 no.2:24-26 F '62. (MInA 15:2)
(Kuznetsk Basin-Mine inspection)

KAPELYUSHNIKOV, German Isaakovich; KLITSUNOV, Viktor Igant'yevich;
MANEVICH, Veniamin Fayovich; PANKRATOV, Yu.A., inzh., retsen-
zent; ZASADYCH, B.I., retsenzent; FEDOTOV, A.N., otv. red.;
OKHRIMENKO, V.A., red. izd-va; IL'INSKAYA, G.M., tekhn. red.

[Safety measures in underground coal mining] Tekhnika bezo-
pasmosti pri podzemnoi dobyste uglia. Moskva, Gos. nauchno-
tekhn. izd-va lit-ry po gornomu delu, 1962. 503 p.

(MIRA 1514)

(Coal mines and mining—Safety measures)

(Coal miners—Diseases and hygiene)

KLITSUNOV, V. I., inzh.

Results of the increase of responsibility for labor safety. Bezop. truda v
prom. 6 no. 8:11-12 Ag '62.
(MIRA 16:4)
(Vorkuta Basin—Coal mines and mining—Safety measures)

LABOS, E.; SALANKI, J.; KLTINYA, Gailna R.

The effect of cholinotropic drugs on the rhythmic activity of glochidia of fresh-water mussel (*Anodonta cygnea* L.). Acta biol. Acad. sci. Hung. 15 no. 2:114-128 '64.

1. Biological Research Institute of the Hungarian Academy of Sciences, Tihany (Head: J. Salanki), and Institute of Physiology, Medical University, Debrecen (Head: St. Went [deceased]).

KLIVANSKAYA, A. A.

25983. Klivanskaya, A. A. O yachene. Fel'dsher i akusherkha, 1940, No 7, s. 52-53

TB Clinic, Inst. Pediatrica, RIMS USSR

SO: Knizhnaya Letopis', Vol. 1, 1955

KLIVANSKAYA, A. A.

27381. KLIVANSKAYA, A. A. Kak udalit' inorodnoye telo iz glazafel'dshef i akusherka, 1949,
No. 8, s. 44-46. EVERG, T. E. Nervnaya sistema v patologe neze tuberkuleza.---
Sm. 27368

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

KLIVANSKAYA, A.A.

25983

O yachmyenye. Fyel'dahyer i akushyerka, 1949, No. 7, c. 52-53.

19 Nyevrologiya

Psikiatriya

Sos. Letopis' No. 34

KLIVANOVSKAYA, A. A.

New method of treatment of gonorrhreal ophthalmia. Feldsher
& skrash. no. 8:29-31 Aug. 1950. (CLML 20:1)

1. Candidate Medical Sciences.

KLIVANSKAYA, A. A.

Toxic effect of sulfonamides on the eye. Vest. oft., Moskva
30 no. 4:32-35 July-Aug 1951. (CIA RL 21:3)

1. Candidate Medical Sciences. 2. Of the Eye Room of the
Central Polyclinic of the Administration for Economic Thera-
peutic Institutions (Head Physician -- N. N. Prokunin).

1. KLIVANSKAYA, A.A.
2. USSR (600)
4. Eyelids - Inflammation
7. Blepharitis and its therapy. Fel'd. i akush no. 6, 1952. Kandidat Meditsinskikh Nauk.
9. Monthly List of Russian Accessions, Library of Congress, September 1952,
UNCLASSIFIED

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723210003-3

KLIVANSKAYA, A.A.

Conjunctivitis, Granular

Etiology and clinical aspects of trachoma. Yel'd. Is kush., No. 7, '52.

Monthly List of Russian Acquisitions, Library of Congress, October 1952. UNCLASSIFIED

APPROVED FOR RELEASE: 06/19/2000

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KLIVANSKAYA, A.A.

Conjunctivitis, Granular

Therapy and prevention of trachoma. Fel'd. i akush. No. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED

KLIVANSKAYA, A. A.

Medicines - Plant Therapy

"Use of Aloe in Eye Treatment," A. A. Klivanskaya,
Can. Med. Sci.

"Tol'dober i Akubar" No 11, pp 55, 56

Aloe is now used in the treatment of incipient catarrh and the usual treatment for trachoma and chlamydia is supplemented with injections of this extract. For various infections of the eyes, it is used in combination with other animal and plant tissues. Aloe injections stimulate the human organism raising its defensive power to combat malignant disease which affect the whole organism or any part

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of it. Aloe extract and other biogenic stimulants have been widely used both in external application and in the treatment of the inner membrane of the eye. Aloe also has been used in the treatment of recurrent sties, persistent blepharitis, various degrees of disease of cornea, and severe forms of cataract. Even diseases such as atrophy of optic nerves, which do not easily yield to treatment, respond well in some cases to biogenic stimulants.

1. KLIVANSKAYA, A. A.
2. USSR (600)
4. Eye - Diseases and Defects
7. Effect of sugar upon eye diseases in children. Fel'd. i akush. No. 4, 1953.

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

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723210003-3

KLIVANSKAYA, A.A., kandidat meditsinskikh nauk

Treatment and prophylaxis of conjunctivitis in agricultural workers. Med.sestra 15 no.4;9-10 Ap '56. (MIRA 9:7)
(CONJUNCTIVITIS)
(AGRICULTURAL LABORERS--DISEASES AND HYGIENE)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723210003-3"

KLIVANSKAYA-KROL', Ye. S. (Prof.)

"Stomach and Duodenum Ulcers in Children," Sov. Med., No.1, 1948

Clinic of Children's Diseases, Med. Faculty, Sverdlovsk Med. Inst.

KLIVAROVA, E., MUDr., CSc.

Methods of determination of scientifically justified staffing requirements of the hygiene service at the district level.
Cesk. zdrav. 13 no. 7/81354-361 Ag '65.

1. Vyzkumny ustav organizace zdravotnictvi v Praze.

Country : Hungary B-8
 Category : Thermodynamics. Thermochemistry. Equilibria.
 Abs. Jour. : Physico-Chemical Analysis. Phase Transitions. 18459
 Ref Zhur-Khimya, No 6, 1959
 Author : Grasselly, Gy.; Klivenyi, E.
 Institut. :
 Title : Concerning the Thermal Properties of the
 Manganese Oxides of Higher Valencies
 Orig. Pub. : Acta mineral.-petrogr. Szeged, 1956, 9, 15-32

Abstract : Study of behavior of manganese oxides on heating in presence of air, for 3 hours, in temperature range 460°-1050°. Temperature dependence curves of Mn:O ratio in oxides were obtained for pure synthetic MnO_2 (I), Mn_2O_3 (II), Mn_3O_4 (III), and mixtures I + II, I + III, II + III, with initial component ratios 1:3, 1:1, 3:1, and of I + II + III, with initial component ratios 5:3:2, 2:1:2, 2:3:5. By the oxalate method a determination was made, with an accuracy of ± 0.2%, of the amount of active oxygen in the mixtures, after heating. Average composition of mixtures after calcining: at 460° MnO_2 .992; at 700° Mn_2O_3 ; at 1050° Mn_3O_4 .008. III in mixtures

Card: 1/2

B-12

Country : Hungary B-8
 Category : Thermodynamics. Thermochemistry. Equilibria.
 APPROVED FOR RELEASE ON 06/19/2000 Phase 1
 Abs. Jour. : Ref Zhur-Khimya, No 6, 1959 CIA-RDP86-00513R000723210003-3
 18459

Author :
 Institut. :
 Title :

Orig. Pub. :

Abstract : with I or II, or in the presence of both components, is completely oxidized to homogenous II in the interval 560-880°, which is confirmed by chemical and by X-ray analyses. -- I. Sokolova.

Card: 2/2

RELENTLESS
KLEVENYI
37
[Redacted]
Stability of Mn_2O_3 . G. Grancio and J. V. Madorsky. Inorg. Chem., 1962, 1, 234-238. (in English). — A mixt. of Mn oxides is completely changed to Mn_2O_3 at 800°, or to Mn_3O_4 above 940°. The change from Mn_2O_3 to Mn_3O_4 is possible only when O is available from the atm., and does not occur if a mixt. of $MnCl$ and Mn_2O_3 is heated in N₂. A procedure is described for dig. the compn. of a mixt. of Mn oxides by thermal analysis. *[Signature]* Walter R. Arendt.

9

HUNGARY / Cosmochemistry; Geochemistry. Hydro-
chemistry; Mineralogy; Petrology

D

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 26872.

Author : Grasselly, G. and Klivanyi, E.

Inst : Not given.

Title : A Method for Determining the Mineral Composition
of Sedimentary Manganese Oxide Ores on the Basis
of Their Thermal Properties.

Orig Pub: Acta Miner.-Petrog. Szeged, 10, 33-46 (1957) (in
English).

Abstract: The earlier developed method for the analysis of
the system MnO -Mn₃O₄-MnO₂ (RZhKhim, 1959, 26814)
is applied to the determination of the mineral com-
position of 12 specimens from various Hungarian
deposits containing pyrolusite (I), manganite (II),
and psilomelane (III). Thermal analysis has shown

Card 1/2

Country :	G
Category :	
Abs. Jour :	Ref Zhar - Khim., No 5, 1959, No. 15363
Author :	
Institut. :	
Title :	
Orit. Pub. :	
Abstract cont'd.	: of isoeguenol (IV), of 4-ethoxy-3-benzylloxy-propenylbenzene (V) and of 3,4-diethoxypropenylbenzene (VI) was shown. In the course of the investigation, it was proved that partial debenzylation of I and subsequent methylation lead not to dimethoxybenzylloxyphenylenedane (see Baker, W. et al., J. Chem. Soc., 1952, 4310), but to monomethoxytribenzylloxyphenylenedane. 3.3 g. of I in 60 ml. of CH ₃ OH are hydrogenated over 0.3 g. of Pd/C, filtered in
Card:	2/6

G - 32

APPROVED FOR RELEASE: 06/19/2000 LT, CIA-RDP86-00513R000723210003-3
VINKLER, Elmer (Szeged, Beloimniss ter 9, Hungary); KLIBENYI,
Elmer (Szeged, Beloimniss ter 9, Hungary)

Antimicrobial activity of aromatic thiolsulphonates and thiolsulphinates. Acta biol. Hung. 12 no.2:121, 126 '61.

1. Institute for Plant Physiology, University of Szeged (Head: I. Szalai) and Institute for Pharmaceutical Chemistry, Medical University, Szeged (Head: D. Roszegi).

FERENCZY, Lajos (Szeged (428), Hungary.); ZSOLT, Janos (Szeged (428), Hungary.); VINKLER, Elemer (Szeged, Beloianiss ter 9, Hungary.); KLIBENYI, Elemer (Szeged, Beloianissz ter 9, Hungary.)

Antimicrobial activity of aromatic thiolsulphonates and thiolsulphinates. Acta biol Hung 12 no.2:121-126 '61.

1. Institute for Plant Physiology, University of Szeged (Head: I. Szalai) and Institute for Pharmaceutical Chemistry, Medical University, Szeged (Head: D. Koszegi).

*

KLIVENYI, FERENC

The homogeneous reduction of benzenehexa-^{1,3,5}trione diiodide by
a mechanism for the latter reaction. I. Egonovits-Volgyi,
and Zsuzsa Kerecsenyi (U.S.A. - Cornell). Acta Chim. Acad.
Sci. Hung. 1970, 73, 319-324 (1971) (in German). — PbSO₄Cl (I),
(14.13 g.), 100 ml. H₂O, and 11.4 g. Zn dust (99.75% pure,
9g. in 11 cm³), treated in 45 min. with 50 ml. concd. HCl
and stirring, the mixt. stirred and refluxed until the Zn dis-
appeared, the PbO₂ phase separated, washed with Na₂CO₃ soln.
and H₂O, dried, and the PbO₂ evapd., gave 8.0 g. (80%)
cryst. PbSO₄Cl (II), m.p. 88-
90°. Similarly, 1.7 g. PbSO₄, 20 ml. H₂O, 0.46 g. Zn
dust, and 10 ml. concd. HCl gave 0.4 g. (grade II). I (17.0 g.)
added dropwise with stirring to 25.7 ml. concd. H₂O₂, and
1.6 g. creviced ice below 0°, the mixt. treated gradually
with 23.75 g. Zn dust below 0°, stirred 1 hr. more, warmed
gradually to room temp., heated to boiling, refluxed 30 min.
till the Zn disappeared,趁冷 (from PbSO₄Cl (II)), the residue
wtd. with CdCl₂ the ext. washed with H₂O dried, and the
CdCl₂ evapd. gave 8.4 g. (84.4%) PbSO₄Cl (III), m.p. and mixed
m.p. 88-90° (from MeOH). II (9.0 g.), 90 ml. MeOH, and
1.49 g. Zn dust, treated with 1.4 ml. concd. HCl at 0° with
stirring, the mixt. gradually heated to boiling, refluxed until
the Zn disappeared,趁冷 (from PbSO₄Cl (III)), and worked up as above
gave 1.7 g. III. According to the method of Schäffer and
Otto [Ber. v. 1970 (1970) 1, 17] PbSO₄H and 1.36 g. PbSH
refluxed 30 min. with stirring with 6.4 ml. concd. H₂O₂ in
55 ml. H₂O, the趁冷 (from PbSO₄Cl (III)), the residue
wtd. with CdCl₂ the ext. dried, and the CdCl₂ evapd. gave 1.0
g. (48%) grade III. The reduction of I is postulated to go
through the steps I → PbSO₄Cl → II → PbSH.

Richard L. Akavia)

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Krivenyi, F.

CH ✓ Determination by a chemical method of the structure of aromatic thiosulfonate esters. I. R. Vinbler and F. Krivenyi, Univ. Brno, *Acta Chem. Acad. Sci. Hung.* 1964, 44, 1054; *Chem. Abstr.* English summary. — Decision between the structures $\text{RSO}_2\text{SR}'$ (I) and $\text{RS(O)OSR}'$ (II) (R and R' both aromatic) for thionilic esters has not previously been made by chem. methods, and only recently by infrared spectroscopy (Cymerman and Tille, *C.A.* 45, 8354). Repetition of earlier reductions by H_1 and NaHSO_3 (Miller and Smiles, *C.A.* 19, 1133; Hinsberg, *C.A.* 3, 660) in general substantiated the previous results. Similar addnl. reductions were carried out on I + II) ($\text{R} = \text{R}' = \text{p-CIC}_6\text{H}_4$) and ($\text{R} = \text{p-CIC}_6\text{H}_4$, $\text{R}' = \text{Ph}$) to give likewise $\text{p-CIC}_6\text{H}_4\text{SO}_2\text{H}$ and (PhS). Since the mol. was split in all such reductions, no decision between I and II was yet possible. By using Zn and HCl (*C.A.* 44, 2246) in ants. equiv. to I and 4 H_g-atoms per mole l., decision might finally be made. The given wt. of I was dissolved in 50 ml. Et_2O , the Zn dust added, the forming HCl dropped in during 10–20 min. under stirring and ice-cooling, the mixt. refluxed until all Zn had dissolved, cooled, the Et_2O layer (A) washed with 1% NH_4OH , the alk. soln. acidified with concd. HCl , and 3 g. FeCl_3 added to give the orange-red $\text{Fe}(\text{OSR})_2$ (III). The filtrate from III was washed with Et_2O and the dried Et_2O layer evapd. to leave the RSH . A was washed repeatedly with H_2O , dried over CaH_2 , and the Et_2O evapd.

to leave the oily (IV). All products were measured by n.p. with aromatic samples. I, II, IV, Ph, and (I + 4 H_g-atoms II per mole I, duration of reaction (min.), g. Zn , mol. HCl , products, yield (%) and n.p. are given: Ph, Ph, 1.34, 2, 30, 0.66, 5, PhSO_2NSP , 0.5, 44° and (PhS), 0.44, 20, Ph, Ph, 1.28, 4, 43, 1.33, 5, (PhS), 0.8; $\text{p-MeC}_6\text{H}_4$, $\text{p-MeC}_6\text{H}_4$, 1.37, 4, 45, 1.50, 8, ($\text{p-MeC}_6\text{H}_4\text{S}$), 0.8, 46°; $\text{p-MeOC}_6\text{H}_4$, $\text{p-MeOC}_6\text{H}_4$, 1.6, 4, 50, 0.93, 10, ($\text{p-MeOC}_6\text{H}_4\text{S}$), 1.2, 40°; 1-C₆H₅, 1-C₆H₅, 1.73, 4, 48, 1.6, 10, (1-C₆H₅S), 1.4, 38°; $\text{p-CIC}_6\text{H}_4$, $\text{p-CIC}_6\text{H}_4$, 1.6, 4, 30, 0.53, 5, ($\text{p-CIC}_6\text{H}_4\text{S}$), 1.2, 70° and $\text{p-CIC}_6\text{H}_4\text{SO}_2\text{H}$, 0.19, 93%; (IV), Ph, $\text{p-MeC}_6\text{H}_4$, 1.33, 2, 30, 0.42, 5, PhSO_2H , 0.18, 80° and unchanged IV, 0.76, 82° and $\text{p-MeC}_6\text{H}_4\text{SH}$, 0.1; (V) $\text{p-CIC}_6\text{H}_4$, Ph, 2.8, 2, 30, 1.50, 10, $\text{p-CIC}_6\text{H}_4\text{SO}_2\text{H}$, 0.8, 90° and (PhS), 0.4 and V, 0.6, 80° and PhSH , 0.3; Ph, $\text{p-MeC}_6\text{H}_4$, 4, 4, 45, 4.45, 10, ($\text{p-MeC}_6\text{H}_4\text{S}$), 3, 35 and $\text{p-MeC}_6\text{H}_4\text{SH}$, 0.5 and 4.45, 10, $\text{p-MeC}_6\text{H}_4$, Ph, 2.64, 4, 30, 3.19, 10, $\text{p-MeC}_6\text{H}_4\text{SO}_2\text{H}$, 1.2, 64° and (PhS), 0.7; Ph, $\text{p-MeC}_6\text{H}_4$, 2.44, 4, 30, 3.19, 10, $\text{p-MeC}_6\text{H}_4\text{SH}$, 0.7; $\text{p-MeC}_6\text{H}_4$, Ph, 2.04, 4, 30, 3.19, 10, $\text{p-MeC}_6\text{H}_4\text{SO}_2\text{H}$, 0.3, 50°, and (PhS), 0.7 and $\text{p-MeC}_6\text{H}_4\text{SH}$, 0.7; Ph, $\text{p-MeC}_6\text{H}_4$, 2.84, 4, 30, 3.19, 18, ($\text{p-CIC}_6\text{H}_4\text{S}$), 1.1, 71° and $\text{p-CIC}_6\text{H}_4$, Ph, 2.54, 4, 30, 3.19, 18, $\text{p-CIC}_6\text{H}_4\text{SH}$, 0.2, 93° and (PhS), 0.65; $\text{p-MeC}_6\text{H}_4$, $\text{p-MeC}_6\text{H}_4$, 2.78, 4, 30, 3.19, 15, $\text{p-MeC}_6\text{H}_4\text{SO}_2\text{H}$, 0.22 and ($\text{p-MeC}_6\text{H}_4\text{S}$), 0.98; IV, 1.32, 4, 120, 0.43, 8, PhSO_2H , 0.09 and ($\text{p-MeC}_6\text{H}_4\text{S}$), 0.9 and IV, 0.1. The precipitating I ($\text{R} = \text{R}'$)

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/ Production of aromatic thionocarbonates and thionophones by bimolecular reduction of sulphonochlorides. B. VITALE and L. KLEINWALD
 J. Am. Chem. Soc., 1954, 76, 139-148. - The equations, $2 R-SO_2Cl +$
 $2 Zn + 4HCl \rightarrow 2R-SR + 2ZnCl_2 + 2H_2O$, and $2R-SO_2Cl + 2Zn +$
 $AlCl_3 \rightarrow 2R-SR + 2ZnCl_2 + 4H_2O$, appear to be general expressions
 for the conversion of aromatic sulphonyl chlorides into aromatic
 thionocarbonates and thionophones, respectively. Fuming HCl
 ($d = 1.10$) is added gradually to a stirred mixture of α -C₆H₅Me-¹⁵Cl
 and Zn dust at 0° which is then warmed until dissolution of the
 metal is complete. The ethereal layer is freed from sulphuric
 acid, dried, and distilled giving α -tolyl α -toluenethionophosphate,
 m.p. 66-67°, in 87% yield. The following compounds are prepared
 similarly: β -methyl β -toluenethionophosphate, m.p. 76-77°,
 α -methyl- β -methylthionocarbonic acid, C₆H₅O₂S, m.p.
 88-89°; 3 : 1-(dimethylaminomethyl) 3 : 4-dimethylthionocarbonic acid,
 C₆H₁₁O₂S, (75%), m.p. 110-112°; β -acetamidothiophenyl β -acetamidothionocarbonate, m.p. 223° (decomp.), α -methyl-
 phenyl α -carboxythionocarbonate, C₆H₅O₃S, (78%), m.p.
 216-217° (decomp.); α -chlorophenyl β -chlorothiobenzenethionophosphate (84%), m.p. 133-134°; 1-methylphenyl neptunium-1-thionophosphate (100%), m.p. 118-120° (lit. 104-108°). When reaction is
 carried out similarly but with use of a larger proportion of Zn the
 products are di- α -tolyl (83%), m.p. 38-39°, di- β -tolyl (80%),
 m.p. 44-47°, β -dimethylidiphenyl (97%), m.p. 44-45°,
 β -:4 : 4'-dimethoxydiphenyl, m.p. 94°, β -dicarboxamido-
 diphenyl (78%), form m.p. 130-131°, and 130-132° respectively;
 α -methyl-dicarboxyphenyl (100%), m.p. 230-240° (decomp.); β -
 m.m.-dicarboxyphenyl (73%), m.p. 76-77°, and di-1-methylthiobenzoate
 (100%), m.p. 88-89°. H. Warr.

K11VNY1, t.
Distr: bE2c (j)/
bE3d

Reactions of arsono sulfides. Elemer Vojtik and
Janos Dobay. (Orvosi rendezelvi Nyugalmi Tudomanyos
Vegyienyi Intezete, Szeged, Hung.). Magyar Kém. Folyóirat
60, 95-98 (1954).—Using the method of Zincke and Parr
(C.A. 46, 2937), sulfone chlorides were prep'd that do not
contain NO₂ and CO groups, thus permitting study of their
reactions. These compounds have the general formula
(ArS)₂O, where Ar is o-tolyl (I), β -anisyl (II), ρ -chlorophenyl
(III), or 1-naphthyl (IV). Ether amines, of I and II treated
with fuming HCl at room temp, changed into thionium salts,
while III and IV remained unchanged. III and IV cannot be
reduced by excess Zn and HCl. IV may be oxidized by
aqueous solutions of H₂O₂-Ac₂O to disulfide. Upon
chlorination, III will split into anisyl chloride and ρ -chloro-
benzenesulfonic acid chloride. I and IV decomposed, into sul-
fides and thioles with n -CH₃MgCl. Lamy C., Acval.