SHVETSOV, M. S.

Main Types of Limestones and Their Classification,"

report presented at the 5th Intl. Congress on Sedimentology, Geneva/Lausanne, 2-7 June 1958.

SHVETSOV, M.S.

Materials on the development on the study of sedimentary rocks in the U.S.S.R. Och. po ist. geol. znan. no. 6:97-237 '58. (MIRA 11:8)
(Rocks, Sedimentary)

SHVETSOV, M.S.

[redacted] Secondary changes in limestones. Trudy MGRI 33:9-13 '58.
(MIRA 12:12)

(Limestone)

SHVETSOV, M.S.

First conference on teaching sedimentary petrography. Izv.vys. ucheb.zav.; geol.i razv. 2 no.9:123-132 S '59. (MIRA 13:4)

1. Moskovskiy geologorazvedochnyy institut imeni S.Ordzhonikidze.
(Petrology--Study and teaching)

PUSTOVALOV, L.V., otv.red.; GIMMEL'FARB, B.M., red.; KRASHENINNIKOV, G.F., red.; SARKISYAN, S.G., red.; SERDYUCHENKO, D.P., red.; TEODOROVICH, G.I., red.; SHVETSOV, M.S., red.; SMIRNOVA, Z.A., red.izd-va; IVANOVA, A.G., tekhn.red.

[Problems of sedimentology; reports of Soviet geologists for the Sixth International Congress of Sedimentology] Voprosy sedimentologii; doklady sovetskikh geologov k VI Mezhdunarodnomu kongressu po sedimentologii. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1960. 215 p. (MIRA 14:3)

1. International Congress of Sedimentology. 6th, Copenhagen, 1960.
(Rocks, Sedimentary)

SHVETSOV, M.S.

Systemizing structures of sedimentary rocks. Izv.vys.ucheb.zav., geol. i razv. 4 no.12:140-142 D '61. (MIRA 15:2)

1. Moskovskiy geologorazvedochnyy institut imeni S.Ordzhonikidze.
(Rocks, Sedimentary--Classification)

SHVETSOV, M.S.

Basic principles in the classification of sedimentary rocks. Izv.vys.ucheb.zav.;geol. i raz. 4 no.8:3-10 Ag '61. (MIRA 14:9)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.
(Rocks, Sedimentary--Classification)

VARSANOF'YEVA, V.A.; BOGDANOV, A.A.; KUZNETSOV, Ye.A.; LANGE, O.K.; MERKLIN, R.L.; MURATOV, M.V.; PERMYAKOVA, A.I.; PETRUSHEVSKIY, B.A.; SOKOLOV, D.S.; SHVETSOV, M.S.; YANSHIN, A.L.

Nikolai Sergeevich Shatskii. Biul. MOIP. Otd.geol. 36 no.4: 3-6 Jl-Ag '61. (MIRA 14:9)
(Shatskii, Nikolai Sergeevich, 1895-1960)

YABLOKOV, V.S., otv. red.; BEZRUKOV, P.L., red.; SHVETSOV, M.S., red.; SHEVCHENKO, G.N., tekhn. red.

[Deltaic and shallow-water marine sediments] Del'tovye i melkovodno-morskie otlozheniia. Moskva, Izd-vo AN SSSR, 1963. 262 p. (MIRA 16:12)

1. Akademiya nauk SSSR. Komissiya po osadochnym porodam pri otdelenii geologo-geograficheskikh nauk.
(Sediments (Geology))

SHVETSOV, M.S.

More about classification of sedimentary rocks. Izv. vys. ucheb. zav.; geol. i razv. 7 no.7:56-61 Jl '64 (MIRA 18:2)

1. Moskovskiy geologorazvedochnyy institut im. Ordzhonikidze.

SHVETSOV, N.I.

Wage reform in the Chinese Peoples's Republic. Sots.trud.no.9:44-57 S '56. (MIRA 9:12)

(China--Wages)

ZOLOTAREV, V.I.; AVSENEV, Yu.M.; KAPRANOV, I.A.; KISVYANTSEV, L.A.; PEKSHEV, Yu.A.; SHVETSOV, N.I.; TELEGIN, Ya.I.; POTAPOV, V.I.; KISVYANTSEV, L.A.; ZYKOV, A.A.; NETHUSOV, A.A.; SENIN, V.P.; MAKSIMOVA, A.P.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; KALASHNIKOV, A.A.; PLAKSIN, S.V.; POPOV, N.N.; KARSHINOV, L.N.; YAKIMOVA, T.A.; BASHKANIKHIN, I.K.; KETKOVICH, A.Ya.; SHALASHOV, V.P.; VORONKOV, F.N.; VEKSHIN, G.K.; CHISTYAKOV, M.A.; IVANOV, N.I., red.; SLADKOVSKIY, M.I., red.; LEPNIKOVA, Ye., red.; MOSKVINA, R., tekhn.red.

[Development of the economy of the people's democracies; a survey for 1957] Razvitie ekonomiki stran narodnoi demokratii; obzor za 1957 g. Pod red.N.I.Ivanova i dr. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1958. 610 p. (MIRA 12:2)

1. Moscow. Nauchno-issledovat. kon"yunkturnyy institut.
(People's democracies) (Economic conditions)

SHVETSOV, N.I.

Textile industry in China. Biul.tekh.-ekon.inform. no.12:70-72 '58. (MIRA 11:12)

(China--Textile industry)

CHU BAO-I [Ch'u Pao-i]; AVSENEV, Yu.M. [translator]; SHVETSOV, N.I. [translator]; FRUMKIN, A.B., red.; LEVITAN, I.B., red.; GURKIN, V.G., tekhn.red.

[Criticism of the bourgeois theory of free trade] Kritika burzhuaznoi teorii svobodnoi torgovli. Pod red. A.B.Frumkina. Moskva, Vneshtorgizdat, 1959. 82 p. Translated from the Chinese. (MIRA 12:8)

(Free trade and protection)

ZOLOTAREV, V.I.; PEKSHEV, Yu.A.; LENSKIY, B.V.; AVSENEV, Yu.M.; KISVYANTSEV, L.A.; SHVETSOV, N.I.; TELEGIN, Ya.I.; ZYKOV, A.A.; SENIN, V.P.; NETRUSOV, A.A.; GAVRILOV, V.V.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; KALASHNIKOV, A.A.; PLAKSIN, S.V.; POPOV, N.N.; KARSHINOV, L.N.; YAKIMOVA, T.A.; SHALASHOV, V.P.; KOSONOGOV, L.A.; PUSENKOV, N.N.; LEPNIKOVA, Ye., red.; MOSKVINA, R., tekhn.red.

[Economic development in the people's democracies; survey for 1958] Razvitie ekonomiki stran narodnoi demokratii; obzor za 1958 g. Pod red.M.I.Sladkovskogo i dr. Moskva, Izd-vo sotsial'no-ekon.lit-ry, 1959. 358 p. (MIRA 13:7)

1. Moscow. Nauchno-issledovatel'skiy kon"yunkturnyy institut.
(Communist countries--Economic conditions)

PEKSHEV,Yu.A.; LENSKIY,B.V.;AVSENOV,Yu.M.;MILOVOV,V.S.;KISVYANTSEV,L.A.;TELEGIN, Ya.I.; POTAPOV, V.I.; NETRUSOV, A.A.; ZYKOV, A.A.; KUDIN, B.M.;MAKSIMOVA, A.P.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; SHVETSOV, N.I.; PLAKSIN, S.V.; POPOV, N.N.; KARSHINOV, L.N.; YAKIMOVA, T.A; SHALAGOV, V.P.; VISYANIN, Yu.L.; KRASNOV, L.V.; PUSENKOV, N.N.; IVANOV, N.I., red.; ZOLOTAREV, V.I., red.; SLADKOVSKIY, M.I., red.; LEPNIKOVA, Ye., red.; KOROLEVA, A., mladshiy red.; NOGINA, N., tekhn. red.

[Economic development of the people's democracies; survey for 1959] Razvitie ekonomiki stran narodnoi demokratii; obzor za 1959 god. Pod red. N.I.Ivanova i dr. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1960. 305 p. (MIRA 14:6)

1. Moscow. Nauchno-issledovatel'skiy kon"yukturnyy institut.
(Europe, Eastern--Economic conditions)

NIKIFOROV, L.A.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; SHVETSOV, N.I.; PLAKSIN, S.V.; POPOV, N.N.; PEKSHEV, Yu.A.; KARSHINOV, L.N.; YAKIMOVA, T.A.; SHALASHOV, V.P.; VASYANIN, Yu.L.; KRASNOV, L.V.; PUSENKOV, N.N.; VASIL'YEVA, G.N.; TSAGURIYA, G.M., tekhn. red.

[Economic development of the people's democracies of Europe and Asia; statistical collection] Razvitie ekonomiki stran narodnoi demokratii Evropy i Azii; statisticheskii sbornik. Moskva, Vneshtorgizdat, 1961. 470 p. (MIRA 15:5)
(Communist countries--Statistics)

SHVETSOV, M. I.

USSR/Chemistry - Alkaloids Apr 51

"Investigation on the Synthesis of a Number of Analogues of the Alkaloid Colchicine, II," T. P. Yenkova (deceased), T. M. Bokova, M. A. Preobrazhenskiy; and A. Ye. Petrushenko, I. A. Il'shteyn, M. I. Shvetsov, Students, Moscow Inst of Fine Chem Tech

"Zhur Obshch Khim" Vol XXI, No 4, pp 767-770

To ascertain structure of colchicine and possibly find compds with simpler structure with colchicine-like action, synthesized the following, contg proved or assumed structural elements of colchicine: 4 derivs of [illegible] B-diphenylethylamine, 2 derivs of [illegible] -diphenylpropylamine, 2 derivs of B, [illegible] -(diphenyl)-butylamine, 7 derivs of [illegible] -keto- [illegible] -diphenylpropylene.

192T30

SHVETSOV, N. I.

SHVETSOV, N. I. -- "Synthesis of Simple and Complex Esters of 1-Alkyl-2, 5-dimethyl-4-phenyl-4-piperidols." Sub 31 Mar 52, Moscow Inst of Fine Chemical Technology imeni M. V. Lomonosov. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

NAZAROV, I.N.; CHERKASOVA, Ye.M.; PROSTAKOV, N.S.; SHVETSOV, N.I.

Heterocyclic compounds. Part 33. Synthesis of 1-alkyl-2,5-dimethyl-4-piperidones. Zhur.ob.khim. 25 no.12:2245-2255 D '55. (MLRA 9:4)

1.Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.Lomonosova.
(Piperidone)

SHVETSOV, N. I.

Synthetic analgesics. VIII. 1-Alkyl-3 : 5-dimethyl-4-phenyl-4-piperidol. I. N. Nazarov, N. I. Shvetsov and O. I. Sarokin. IX. Its complex ester; homologues of Promedol and Isopromadol. I. N. Nazarov and N. I. Shvetsov. Cyanohydrins of γ-piperidone, tetrahydro-γ-pyrone and tetrahydro-γ-thiopyrone; stereo-chemistry of cyanohydrin synthesis. I. N. Nazarov and B. V. Unkovskii (*Zh. obshch. Khim.*, 1960, 30, 3157—3169; 3170—3181; 3181—3191).—VIII. The effect of phenyl-lithium on 1-alkyl-2 : 5-dimethyl-4-piperidone (I) is considered. In the majority of cases three stereoisomers—from the four theoretically possible—are separated from the phenylpiperidols (II) produced. Phenyl-lithium when reacted with 1-*cyclo*hexyl- and 1-phenyl-2 : 5-dimethyl-4-piperidone forms only one stereoisomer. I reacts preferentially in enolic form with Grignard reagents but gives low yields of *tert.*-piperidol.

IX. Propionic esters, propionates (III) and acetates of stereoisomers of II are prepared. Satisfactory esterification of II depends on structure of isomers and on character of substituents on the N of the piperidol nucleus. With Me groups in this position, II easily esterifies with acid halides in the cold, but with higher alkyl or alicyclic radicals, only by heating in presence of Mg metal. If the alkyl substituents at the N are branched, analgetic activity of III is nullified. Thus the hydrochloride of the propionate of the α-isomer of 1 : 2 : 5-trimethyl-4-phenyl-4-piperidol showed highest analgetic and lowest toxic activity.

The synthesis of piperidone cyanohydrins was achieved through reactions of conc. aq. solutions of the hydrochlorides with the calculated amounts of NaCN. γ-Piperidones reacted energetically with HCN. Similarly by reacting the hydrochlorides of I with NaCN a series of 1-alkyl-2 : 5-dimethyl-4-cyano-4-piperidols were obtained. From bicyclic aminoketones, cyanohydrin crystals (96—97% yields) were obtained, containing condensed piperidine nuclei. By adding to aq. solutions of 2 : 2-dimethyltetrahydropyran-4-one and -thiopyran-4-one 40% aq. $NaHSO_3$, the corresponding bisulphite compounds are formed which with conc. aq. NaCN are easily converted to the cyanohydrins in 70—83% yields. All cyanohydrins of I form as only one of the 4 theoretically possible stereoisomers; they were all of interest as intermediates for new anaesthetic materials similar to α-eucaine. A. L. B.

Inst. Org. Chem., AS USSR

SHVETSOV, N.I.

NAZAROV, I.N.; PROSTAKOV, N.S.; SHVETSOV, N.I.

Heterocyclic compounds. Report No.39: Synthetic anesthetics. Part 4: Esters of 1.2,5-trimethyl-4-phenyl-4-piperidol with aliphatic acids. Synthesis of promedol and isopromedol. Zhur. ob. khim. 26 no.10:2798-2811 O '56. (MIRA 11:3)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova.

(Esters) (Piperidine)

NAZAROV, I.N.; SHVETSOV, N.I.

Heterocyclic compounds. Part 56: Effect of primary amines on propenylisopropenylketone. Zhur.ob.khim. 27 no.5:1218-1222 My '57. (MLRA 10:8)

1.Institut organicheskoy khimii Akademii nauk SSSR.
(Amines) (Ketone)

SHVETSOV, N. I.

E. A. Mistryukov and N. I. Shvetsov, "Application of Concepts of Conformation for Determining the Conformation of Isomeric 1, 2, 3- and 1, 2, 5-Trimethyl-4-phenyl Piperidoles."

report presented at the Symposium on Concepts of Conformation in Organic Chemistry which took place in Moscow at the IOKh AN SSSR (Institute of Organic Chemistry, AS USSR) from September 30 to October 2, 1958.

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1959, No. 3, 561-564.

5.3900

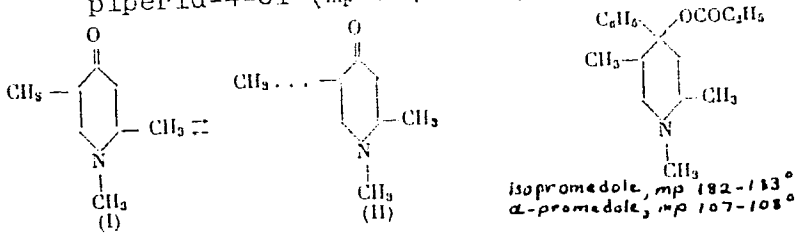
TT074
SOV/62-59-12-18/43

AUTHORS: Nazarov, I. N., Shvetsov, N. I.

TITLE: New Methods of Synthesis of Isopromedole and α-Promedole

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 12, pp 2161-2164 (USSR)

ABSTRACT: 1,2,5-Trimethylpiperid-4-one, a mixture of cis- and trans-isomers (I and II), was used as starting material for the synthesis of promedole, which, with phenyllithium forms mostly 1,2,5-trimethyl-4-phenyl-piperid-4-ol (mp 107-108°) corresponding to promedole.



Card 1/4

New Methods of Synthesis of Isopromedole and α-Promedole

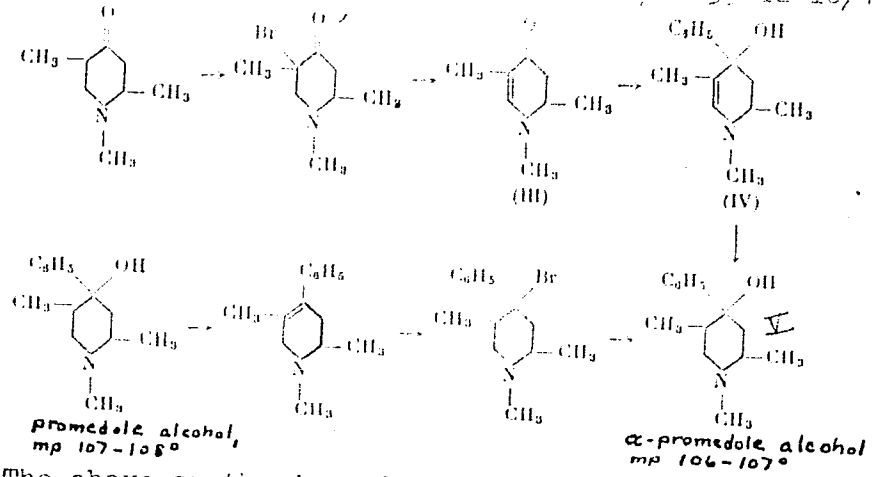
77074
SOV/62-59-12-18/43

After separation of (II) (trans) the residue contains mostly the cis-isomer, which with phenyllithium and propionyl chloride forms isopromedole, in almost 25% yield. For the synthesis of α-promedole two methods of preparation of corresponding isomer of 1,2,5-trimethyl-4-phenylpiperid-4-ol (V) were developed. The first method: (V) was obtained by catalytic hydrogenation of unsaturated alcohol (IV) in almost 30% yield. The second method is based on dehydration of alcohol (VI) followed by hydrobromination and hydrolysis.

Card 2/4

New Methods of Synthesis of [illegible] and α-Promedole

7074
SOV/62-59-12-18/43



The above synthesis made it possible to study their stereochemistry. The results will be given in a separate communication. There are 2 Soviet references.

Card 3/4

New Methods of Synthesis of Isopromedole and α-Promedole

77074
SOV/62-59-12-18/43

ASSOCIATION: Zelinskiy Institute of Organic Chemistry, Academy of Sciences, USSR (Institut organicheskoy khimii imeni N. D. Zelinskogo Akademii nauk SSSR)

SUBMITTED: March 25, 1958

Card 4/4

5 (2,3)

AUTHORS: Shvetsov, N. I., Kucherov, V. F. SOV/20-126-5-29/69

TITLE: The Stereochemistry of Heterocyclic Compounds (Stereokhimiya geterotsiklicheskikh soyedineniy). Configuration of the Geometric Isomers of 1,2,5-Trimethyl-4 Phenyl Piperidole-4 (Konfiguratsiya geometricheskikh izomerov 1,2,5-trimetil-4-fenilpiperidolov-4)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 5, pp 1017 - 1020 (USSR)

ABSTRACT: 1,2,5 trimethyl piperidole-4 is a mixture of cis- and trans--isomers which is obtained by the condensation of propenyl-isopropenyl-ketone with methylamine (Ref 1). Of these isomers (I) and (II) the second - the trans isomer - is the more stable. A greater amount is also produced with alkaline isomerization, and it was isolated in the individual state. This has rendered possible the synthesis of all 4 geometrical isomers, as mentioned in the sub-title (III), (IV), (V) and (VI). Their propionates showed a pain-alleviating activity of various degrees (Ref 2). Their effect exceeds that of morphine by the 2-,8-,4- or 4-6-fold. In order to clarify the connection between the physiological activity and the spatial structure of this class of com-

Card 1/3

pounds the authors studied the stereochemistry of isomeric phenyl-alcohols. Thus it has become possible to prove the existence of the configuration mentioned with respect to the first group of substances (Ref 1). In the reaction of the trans-piperidole (II) with phenyl-lithium a mixture is formed (4:1) of isomeric phenyl-alcohols (III) and (IV). They can only be distinguished from each other by the configuration at C_4. It was found that the isomer (IV) is more easily degraded and that it is more difficult to transform it into an ester than (III). Thus, (IV) must contain an axial hydroxyl group at C_4. Investigation of the molecular model shows that the alcohol (IV) is thermodynamically more advantageous with an equatorial position of the phenyl group. As a matter of fact the alcohol (III), isomerical to same, can easily be transformed into (IV) at the reactions which proceed in C_4 at a Walden reversal. (Ref 1).

All this is a convincing proof that the promedol alcohol (III) - with a trans-position of the methyl groups - contains a cis-

-position of the phenyl group at C_4 and of the methyl group at C_3. The α-promedol alcohol is its isomer with a trans-position of these groups. Much more difficult, however, is the proof of the configuration of the isomers (V) and (VI). But in this case too a success has been achieved, and in particular in connection with the investigation of the products of the catalytical hydration of the 1,2,5 trimethyl-4-phenyl Δ^5 dehydro-piperidol-4 (VIII), obtained at an earlier stage (Ref 1). This unsaturated compound is very easily dehydrated. The proof herefore is the presence therein of an axial hydroxyl group at C_4. (VIII) was oxydized to (IX). (IX) shows characteristic absorption bands corresponding to the existence of a C=O bond of the tertiary amide, and further also of the existence of a non-conjugate keto group and of an associated hydroxyl. The formation of this latter substance is only possible with the oxidation of the double bond, which is located at C_5 of the piperidine cycle. With the catalytical hydration of the (VIII) a mixture

The Stereochemistry of Heterocyclic Compounds. Configuration of the Geometric Isomers of 1,2,5-Trimethyl-4 Phenyl Piperidols-4

SOV/20-126-5-29/69

of isomers is produced out of which - at a ratio of about 5:1 - the isomer (IV) and the new isomer, having a melting point of 102-103°, have been isolated, the latter isomer having proved to be identical with the isopromedol alcohol (V). This further proves, that the 3rd isomer (V) has a cis-position of the methyl groups, as well as a cis-position of the phenyl group at C_4, analogous to the (III), and finally a cis-position of the methyl group at C_5. It follows therefrom that the 4th isomer must have the only possible configuration with a cis-position of the methyl groups and a trans-position of the phenyl-group at C_4, as well as of methyl group at C_5. There are 4 Soviet references.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

Card 4/5

NAZAROV, Ivan Nikolayevich [1906-1957]; TORGOV, I.V., doktor khim.nauk, otv.red.; ANDRIYEV, V.M., kand.khim.nauk, red.; GURVICH, I.A., kand.khim.nauk, red.; SHVETSOV, N.I., kand.khim.nauk, red.; YANOVSKAYA, L.A., kand.khim.nauk, red.; RUDENKO, V.A., red.izd-va; POLYAKOVA, T.V., tekhn.red.

[Selected works] Izbrannye trudy. Moskva, Izd-vo Akad.nauk SSSR, 1961. 690 p. (MIRA 14:4)

(Chemistry, Organic)

KUCHEROV, V.F.; SHVETSOV, N.I.

Stereochemistry of heterocyclic compounds. Report No.2: Geometrical isomers of 1-cyclohexyl- (and 1-phenyl)-2,5-dimethyl-4-phenyl-4-poperidinols. Izv. AN SSSR. Otd. khim. nauk no.2:287-291 F '61 (MIRA 14:2)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Piperidinol)

MISTRYUKOV, E.A.; SHVETSOV, N.I.

Synthesis of four geometrical isomers of 1,2,3-trimethyl-4-phenyl-4-piperidinol. Izv. AN SSSR. Otd. khim. nauk no.2:292-294 F '61. (MIRA 14:2)

1. Institut organicheskoy khimii im.N.D.Zelinskogo AN SSSR.
(Piperidinol)

SHVETSOV, N.I.; UNKOVSKIY, B.V.; MOKHIR, I.A.; KUCHEROV, V.F.

Stereochemistry of heterocyclic compounds. Report No.5: Possible configuration of 1, 2, 5-trimethyl-4-ethynyl-4-piperidinol stereoisomers and their transformation products. Izv.AN SSSR.Otd.khim.nauk no.5: 843-849 My '61. (MIRA 14:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR i Institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova.
(Piperidinol)

YAKUBOVICH, A.Ya.; SHVETSOV, N.I.; LEBEDEVA, I.V.; YAKUBOVICH, V.S.

New method of synthesis of polyphosphonitriles. Zhur.neorg.khim. 8 no.2:534 F '63. (MIRA 16:5)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova.
(Phosphonitrile chloride)

YAKUBOVICH, A.Ya.; SHVETSOV, N.I.; LEBEDEVA, I.V.; YAKUBOVICH, V.S.

New method of synthesizing polyphosphonitriles. Zhur. neorg. khim. 8 no.8:1831-1838 Ag '63. (MIRA 16:8)

(Phosphonitrile chloride)

SHVETSOV, N.I.; NURIDZHANYAN, K.A.; YAKUBOVICH, A.Ya.; SUKHOV, F.F.

Chemistry of phosphazenes. Derivatives of 2,4,6,6-tetra-N-dimethylaminocyclotriphosphonitrile. Zhur.ob.khim. 33 no.12:3936-3941 D '63. (MIRA 17:3)

1. Fiziko-khimicheskiy institut imeni Karpova.

SHVETSOV, M.I.; LEBEDEVA, I.V.; PILATOVA, I.K.

Synthesis of some RO derivatives of phosphagenephosphoxide.
Zhur.neorg.khim. 10 no.4:993-994 Ap '65. (MIRA 18:6)

L 13622-66 EWT(m)/EWP(j)/T RPL WW/RM

ACC NR: AP6000987 (A) SOURCE CODE: UR/0286/65/000/022/0060/0060

AUTHORS: Yakubovich, V. S.; Lebedeva, I. V.; Yakubovich, A. Ya.; Shvetsov, N. I.

ORG: none

TITLE: A method for obtaining polyphosphonitryl chlorides. Class 39, No. 176412 [announced by Scientific Research Physicochemical Institute im. L. Ya. Karpov (Nauchno-issledovatel'skiy fiziko-khimicheskiy institut)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 60

TOPIC TAGS: phosphorus compound, polymer, polycondensation

ABSTRACT: This Author Certificate presents a method for obtaining polyphosphonitryl chlorides based on phosphonitryl chlorides. To produce a thermally stable and uniform polymer of a high molecular weight, monohydroxy derivatives of polychlorophosphazine-phosphohydroxy dichlorides or their derivatives, such as alkoxy derivatives, are used as phosphonitryl chlorides. These substances are subjected to polycondensation.

SUB CODE: 07/ SUBM DATE: 25Feb63

UDC: 678.745.3'73

Card 1/1 HW

L 15326-66 EWT(m)/EWP(j)/T/ETC(m)-6 WW/RM

ACC NR: AP6000990 (A) SOURCE CODE: UR/0286/65/000/022/0061/0061

AUTHORS: Yakubovich, V. S.; Lebedeva, I. V.; Yakubovich, A. Ya.; Shvetsov, N. I. 53 B

ORG: none

TITLE: A method for obtaining polyphosphonitrile chlorides. Class 39, No. 176416 /announced by Scientific Research Physico-Chemical Institute im. L. Ya. Karpov (Nauchno-issledovatel'skiy fiziko-khimicheskiy institut)/

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 61

TOPIC TAGS: polymer, polycondensation, organic phosphorus compound, phosphonitrile, monomer

ABSTRACT: This Author Certificate presents a method for obtaining polyphosphonitrile chlorides by polycondensation of phosphonitrile chloride monomers. To increase the variety of thermostable polymer, the monomers used are: chloromono- or poly(dichlorophosphasen)-phosphooxide dichlorides or alkoxyl derivatives of the latter.

SUB CODE: 11/ 07/ SUBM DATE: 25Feb63

Card 1/1 UDC: 678.745.3123

PIROTSKIY, P.P.; SHVETSOV, N.N.

Current leakage in electrolytic cells for the electrolysis of zinc and ways to reduce it. TSvet. met. 33 no.8:35-39 Ag '60. (MIRA 13:8)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.
(Electric currents, Leakage)
(Zinc--Electrometallurgy)

PIROTSKIY, I.P.; SHVETS[illegible], [illegible].

Device for measuring current in electrolyzer streams. Izm.tekh. no.12:42-[illegible] D '61 (MIRA 15:1)

(Electric meters)

PIROTSKIY, P.P.; SHVETSOV, N.N.

Modeling current leakages in electrolytic cell systems. TSvet. met. 34 no. 4:29-34 Ap '61. (MIRA 14:4)
(Electric currents, Leakage—Electromechanical analogies)
(Electrometallurgy)

SHVETSOV, N.N.

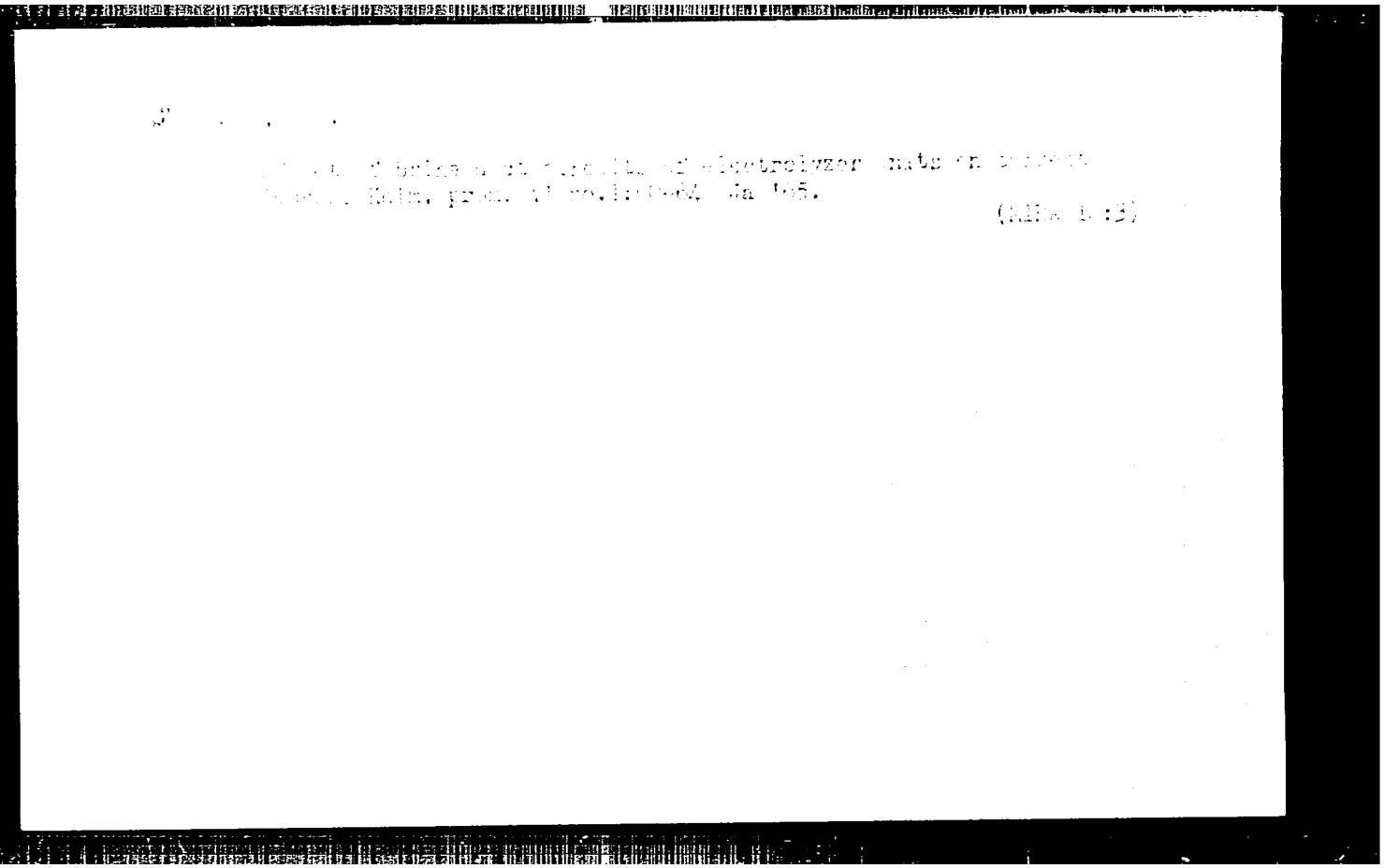
Electric current losses in electrolytic copper refining and methods to calculate them. TSvet.met. 35 no.8:36-44 Ag '62. (MIRA 15:8)

(Copper--Electrometallurgy) (Electric currents, Leakage)

SHVETSOV, N.N.; STENDER, V.V.

Current leakage in the industrial electrolysis of aqueous solutions. Zhur. prikl. khim. 36 no.8:1756-1763 Ag '63. (MIRA 16:11)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.



PIROTSKIY, Petr Petrovich, doktor tekhn.nauk, prof.; SHVETSOV, Nikolay Nikolayevich, kand.tekhn.nauk, dotsent

"Electrical engineering and electrical equipment" by N.I.Amatuni and others. Reviewed by P.P.Pirotskii and N.N.Shvetsov. Izv.vys. ucheb.zav.; elektromekhanika 8 no.6:721-722 '65.

(MIRA 18:8)

1. Zaveduyushchiy kafedroy elektrotekhniki Dnepropetrovskogo khimiko-tekhnologicheskogo instituta (for Pirotskiy).
2. Dnepropetrovskiy khimiko-tekhnologicheskiy institut (for Shvetsov).

FADEEV, A.F., [illegible]NOVA, M.A., [illegible]V, V.K., [illegible]KOV, B.F.

Liquid-vapor equilibrium in the system methyl alcohol - methyl methacrylate. Zhur. fiz. khim. 38 no.5:1303-1304 My '64. (MIRA 18:12)

1. Yaroslavskiy tekhnologicheskiy institut. Submitted June 7, 1963.

SHVETSOV, P. D.

Remont, reviziia i eksploatatsiia parovykh dvigatelei. Kiev, Mashgiz, 1950.
199 p. illus.

Bibliography: p. 181.

Repair, inspection and utilization of steam engines.

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SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SHVETS, I.T., deystvitel'nyy chlen; SHVETSOV, P.D., professor [editors].

[Thermodynamic installations of small and medium capacity; a reference book. Teploenergeticheskie ustanovki maloi i srednei moshchnosti; spravochnoe rukovodstvo. Pod red. I.T.Shvetsa i P.D.Shvetsova. Kiev, Gos.nauchno-tekhn.izdvo mashinostroit.lit-ry [Ukr.otd-nie] 1952. 514 p. (MLRA 6:7)

1. Akademiya nauk Ukrainskoy SSR (for Shvets). (Thermodynamics)

SHVETSOV, P.D., prof.; YEREMENKO, A.S., kand.tekhn.nauk; KUTSIN, E.A., kand.tekhn.nauk

Problem of raising the resistance of turbine blades to erosion blades. Trudy Inst.tepl.AN URSR no.7:21-25 '52. (MIRA 13:5)
(Cavitation) (Turbines--Blades)

SHVETSOV, P.D., prof.

Limits of the raising of the power of engines. Trudy Inst. tepl.AN URSR no.7:26-34 '52. (MIRA 13:5)
(Steam engines)

SHVETSOV, P.D., professor

Simplified calculation of vibration in steam turbine blades. Trudy Inst. tepl. AN URSR no.8:55-67 '52. (MLRA 8:7)
(Steam turbines--Blades--Vibration)

SHVETSOV, P.D., professor

Improving the thermodynamic efficiency of marine steam engines. Trudy Inst. tepl. AN URSR no.8:68-77 '52. (MLRA 8:7)
(Marine engines)

SHVETSOV, P.D., professor; BARANOVSKIY, M.A., kandidat tekhnicheskikh nauk, dotsent, retsenzent, redaktor; RUDENSKIY, Ya., tekhnicheskiy redaktor.

[Prevention of breakdowns in steam turbines] Preduprezhdenie avarii parovykh turbin. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1953. 234 p. [Microfilm] (MLRA 8:2)
(Steam turbines)

KULIKOVSKIY, Pavel Pavlovich, kand.tekhn.nauk; SHVETSOV, Petr Dmitriyevich, prof.; SEMENOV, Aleksandr Sergeyevich, dots.; MOZER, V.F., prof., retsenzent; SAYKOVSKIY, M.I., kand.tekhn.nauk, retsenzent; KIRAKOVSKIY, N.F., dots., red.; TSITKIN, S.I., kand.tekhn.nauk, red.; ROMANOVSKIY, I.A., inzh., red.; SERDYUK, V.K., inzh., red. izd-va; RUDENSKIY, Ya.V., tekhn.red.

[Steam engines; control, adjustment, and testing; a manual] Parovye dvigateli; kontrol', naladka, isputanie. Spravochnoe rukovodstvo. Kiev, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1955. 377 p. (MIRA 11:6)

(Steam engines--Handbooks, manuals, etc)

SHVETS, I.T.; SHVETSOV, P.D., professor; DYBAN, Ye.P., mladshiy nauchnyy sotrudnik.

Study of heat transfer around the base of moving blades in turbines. Trudy Inst.tepl.URSR no.12:13-20 '55. (MLRA 9:7)

1.Deystvitel'nyy chlen AN USSR (for Shvets)
(Heat--Transmission) (Blades)

SHVETSOV, P.D.

FEDOROV, P.D.; STABNIKOV, V.N.; GLYBIN, I.P.; BELYAVSKIY, V.V.; BOYCHENKO, N.G.; BUZYKIN, N.A.; GOLOVIN, P.V.; DEMCHUK, A.P.; ZHURA, K.D.; KORCHINSKIY, A.I.; KURILENKO, O.D.; KLIMKO, N.G.; LITVAK, I.M.; MAL'TSEV, P.M.; NIKOLAYCHUK, I.M.; NAUMOV, A.L.; POPOV, V.D.; RED'KO, F.A.; SKOBLO, D.I.; KHRISTENKO, M.M.; TSYGANKOV, P.S.; SHLIPCHENKO, Z.S.; SHVETSOV, P.D.

Gleb Mikhailovich Znamenskii; obituary. Sakh. prom. 31 no.12:68 D '57. (MIRA 11:1)

(Znamenskii, Gleb Mikhailovich, 1901-1957)

PHASE I BOOK EXPLOITATION SOV/3398
SOV/31-M-14

Akademiya nauk UkrSSR. Institut teploenergetiki

Teploobmen i gidrodinamika (Heat Transfer and Hydrodynamics) Kiyev, 1958. 190 p. (Series: Its: Sbornik trudov, no. 14) 2,000 copies printed.

Eds. of Publishing House: Ya.L. Kaplan and N.M. Latinova; Tech. Ed.: M.I. Yefimova; Editorial Board: I.T. Shvets (Resp. Ed.), Academician, Academy of Sciences UkrSSR; G.M. Shchegolev (Deputy Resp. Ed.), Candidate of Technical Sciences; N.M. [illegible] (Resp. Secretary), Candidate of Technical Sciences; V.I. Tolubinskiy, Corresponding Member, Academy of Sciences UkrSSR; I.I. [illegible]skiy, Doctor of Technical Sciences; M.M. Nazarchuk, Candidate of Technical Sciences; P.I. Lavrov, Candidate of Technical Sciences; P.D. Shvetsov, Professor; and N.M. [illegible], Candidate of Technical Sciences.

PURPOSE: This collection of articles is intended for scientific workers and technical personnel in the fields of heat transfer and hydrodynamics.

COVERAGE: This collection of 18 articles deals with experimental and theoretical studies of problems in heat transfer and hydrodynamics as they affect steam and gas turbines and heat-transfer devices. The results of theoretical investigations of heat transfer in turbine components and in elements of heat-utilizing apparatus are described, and new calculation methods are suggested. Several problems of the thermodynamics and aerodynamics of steam and gas turbines are discussed. References follow each article.

AVAILABLE: Library of Congress

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Card 7/7

SHVETSOV, P.D.; PECHUK, V.I.

Aerodynamic investigation of auxiliary details of the blading section of high capacity steam turbines. Trudy KTIPP no.19:39-50 '58. (MIRA 12:12)

(Steam turbines)

KAMENETSKIY, Aleksey Vasil'yevich; SHVETSOV, P.D., prof., retsenzent; SERDYUK, V.K., inzh., red.

[Operation and repair of reciprocating valve steam engines] Ekspluatatsiia i remont klapannykh parovykh mashin, rabotaiushchikh na protivodavlenie. Kiev, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 108 p. (MIRA 12:7)
(Steam engines--Maintenance and repair)

MOROZOV, Sergey Georgiyevich; SHVETSOV, P.D., prof., retsenzent; SOROKA, M.S., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Heat calculations of a steam turbine with variable operating conditions]Teplovye raschety parovoi turbiny pri peremennykh rezhimakh. Moskva, Mashgiz, 1962. 297 p. (MIRA 15:9)
(Steam turbines)

SHVETSOV, P. F.

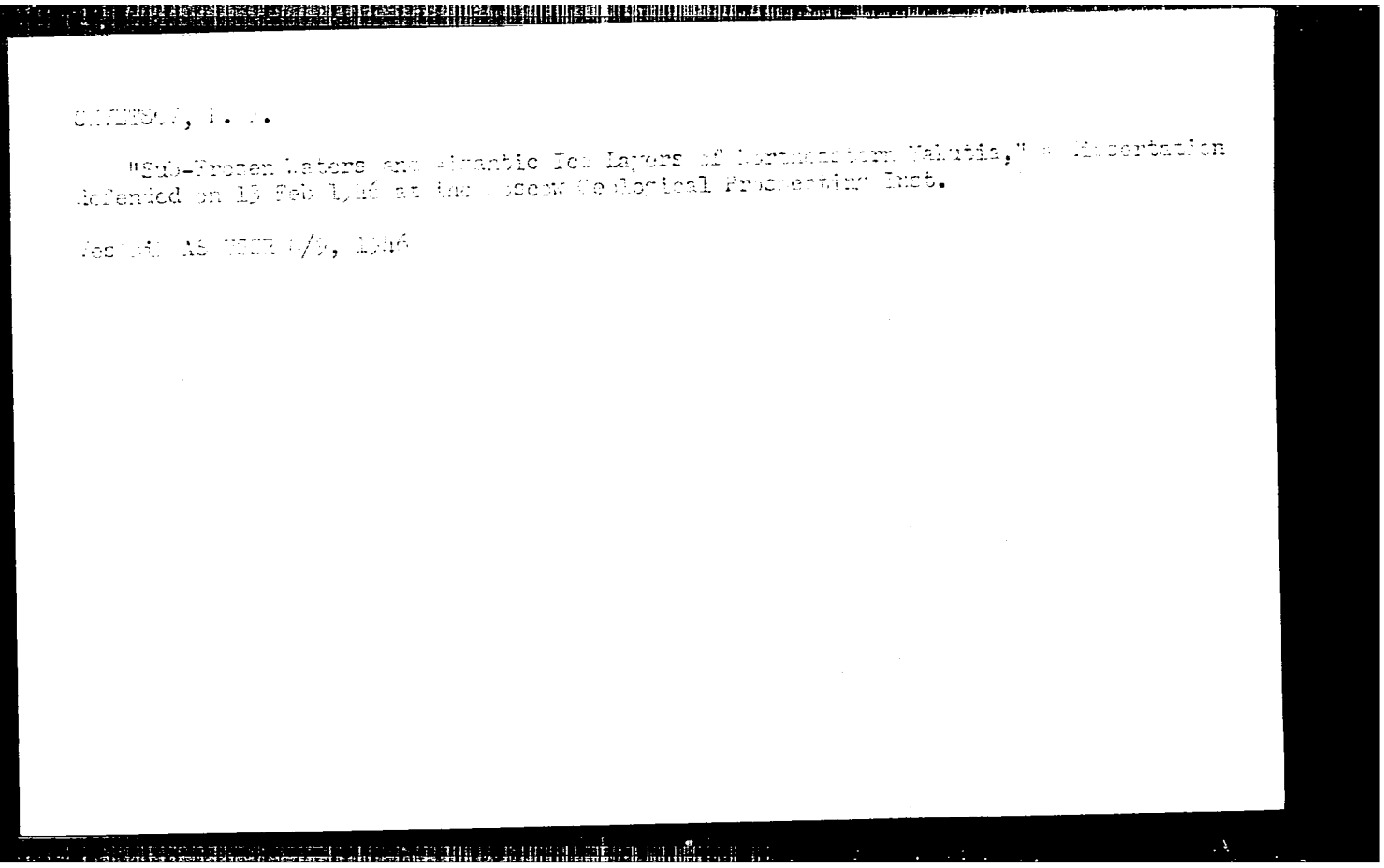
Perma frost and engineering-geological conditions of the Anadyr. region. Izd. gorno-geol. upr. 1938

So: Trudy Arkticheskogo Nauchno-Issledovatel'skogo Instituta, GUSMP, Council of Ministers, Vol. 201, 1948

SHVETSOV, P. F. AND SEDOV, V. [illegible].

Gigantic iceing and subterranean waters of the Tas-Khayakhtakh range. Izd. Sov. Poizuch. Proizvod. Sil, Iust Merzldoved. 1941

So: Trudy Arkticheskogo Nauchno-Issledovatel'skogo Instituta, GUSMP, Council of Ministers, Vol. 201, 1948



[illegible], I. A.

"Sub-Frozen Waters and Atlantic Ice Layers of Northeastern Yakutia," a dissertation defended on 13 Feb 1946 at the Moscow Geological Prospecting Inst.

Vechernaya Moskva, 4/5, 1946

USSR/Permafrost Jul/Aug 1947
Hydrology

"The Verkhoyansk-Kolymsk Mountainous Region as the Typical Permafrost Hydrological Province," P. F. Shvetsov, 12 pp

"Iz Vsesoyuz Geog Obshchestva" Vol LXXIX, No 4

This is one of the regions, where traces of huge glaciers still remain. The author discusses the make-up and location of the more important ice fields and glaciers of the Verkhoyansk, Tas-Khayatakh, Cherek, Taskystabyt, Momsk, and Kolymsk Mountain Ranges. This work was submitted at the Institute of Permafrost imeni V. A. Obrucheva, Academy of Sciences of the USSR.
LC 49270

SHVETSOV, P.F.; MEYSTER, L.A., otv.red.; KOTLYAREVSKAYA, P.S., red.izd-va; ALEKSEYEVA, T.V., tekhn.red.

[Introductry chapters to the fundamentals of cryopedology] Vvodnye glavy k osnavam geokriologii. Moskva, Izd-vo Akad.nauk SSSR, 1955. 110 p. (Materialy k osnovam ucheniia o merzlykh zonakh zemmnoi kory, no.1). (MIRA 13:9)

(Frozen ground)

SHVETSOV, P.F.

USSR/ Geology - Terminology

Card 1/1 Pub. 45 - 8/18

Authors : Meyster, L. A., and Shvetsov, P. F.

Title : About some terms in the study of the zones of solidified soils and rocks and its place among other sciences

Periodical : Izv. AN SSSR. Ser. geog. 1, 69 - 73, Jan-Feb 1955

Abstract : Various geological terms are discussed as to derivation and present usage. Diagram.

Institution : Acad. of Sc., USSR, Institute of the Science of Soil Solidification

Submitted : .....

SHVETSOV, P.F.

Principles governing the division of the permafrost zone into regions. Mat.k osn.uch.o merz.zon.zem.kory no.3:18-39 '56. (MIRA 13:9)

(Frozen ground)

TOLSTOV, A.N.; SHVETSOV, P.F.

Data on the geological and geomorphological examination of the discovery site of the neolithic man in the Kolyma channel of the Indigirka River. Izv.AN SSSR.Ser.geog. no.3:85-89 My-Je '56. (MLRA 9:11)

1. Institut merzlotovedeniya AN SSSR imeni V.A. Obrucheva.
(Indigirka Valley--Physical geography)
(Stone age)

SHVETSOV, P.F.; MEYSTER, L.A.

Water infiltration for thawing alluvial deposits as one of the methods used in hydrothermal improvement of frozen ground. Izv. AN SSSR. Ser. geog. no. 6:79-84 N-D '56. (MLRA 10:1)

1. Institut merzlotovedeniya imeni V.A. Obrucheva.
(Frozen ground)

SHVETSOV, P.F.

Origin and regularities of fossil ice occurrence. Vest.AN SSSR 26 no.3:66-69 Mr '56. (MLRA 9:6)

1.Chlen-korrespondent AN SSSR.
(Ice) (Frozen ground)

SAVETSOV, P.F.

Popov, I.V

5(4,5) PHASE I BOOK EXPLOITATION SOV/1655

Akademiya nauk SSSR. Komitet po geodezii i geofizike.

Tezisy dokladov na XI General'noy assamblyee Mezhdunarodnogo geodezicheskogo i geofizicheskogo soyuza. Mezhdunarodnaya assotsiatsiya nauchnoy gidrologii (Abstracts of Reports Submitted to the 11th General Assembly of the International Union of Geodesy and Geophysics. The International Association of Scientific Hydrology) Moscow, 1957. 101 p. /Parallel texts in Russian and English or French/ 1,500 copies printed.

No additional contributors mentioned

PURPOSE: This booklet is intended for hydrologists and civil engineers.

COVERAGE: This collection of abstracts covers reports presented at the 11th General Assembly of the International Union of Geodesy and Geophysics on hydrological, erosional, and glaciological processes. Studies related to problems of underground waters, snow, and rivers are also discussed. The abstracts are in Russian, with English or French translations. Those appearing in English are designated by a single asterisk; those in French by two. There are no references given.

Card 1/8

AVAILABLE: Library of Congress (GB653.A37)

Card 8/8

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SHVETSOV, P.F.

Results of research on soil improvement through the heating of frozen rocks and cold soils and further research tasks. Izv. AN SSSR. Ser. geog. no.5:87-90 S-O '57. (MIRA 11:2)
(Frozen ground) (Soil heating)

SHVETSOV, P.F.

Scope and tasks of Soviet geocryology. Sov.geol. 1 no.12:36-42 D '58. (MIRA 12:4)

1. Institut merzlotovedeniya imeni V.A. Obrucheva AN SSSR.
(Frozen ground)

SHVETSOV, P F.

AUTHOR: None Given

30-58-5-13/36

TITLE: In the Department of Geological-Geographical Sciences (V otdelenii geologo-geograficheskikh nauk)

PERIODICAL: Vestnik Akademii Nauk SSSR, 1958, Nr 5, pp. 56-59 (USSR)

ABSTRACT: The report of activity was made by D. I. Shcherbakov, Secretary of the Department and Member, Academy of Sciences, USSR. He mentioned that in the plan of the past year the sections devoted to the treatment of scientific problems were increased. In the report the ways of a further improvement of activity of the scientific institutions of the department were shown. Above all the participation of the institutes in the concrete treatment of individual questions of leading problems must be intensified. The works of the introduction of the scientific research of marked atoms into practice as well as of the distribution of different radioactive elements and their isotopes in nature must be intensified. In the field of experimental researches the highest

Card 1/2

attention must be devoted to problems of modelling natural processes. The thematic and the regional scientific prognoses play an especially important part. Their part in the development of the mineral raw material basis constantly increases. At present it is an indispensable means of the national economy plan. Then he reported in detail on the establishment of the Siberian Branch AS USSR and emphasized the necessity of aid on the part of the department. At the end he mentioned the connections of the department institutions to the councils of national economy for which an expeditionary activity of the department institutions shall be beneficial. The following persons participated in the discussion of the report:

1) P. F. Shvetsov, Corresponding Member, Academy of Sciences, USSR reported on the work of the Institute for Frost Science and regretted the little interest on the part of the department office for this activity.
2) A. V. Sidorenko, President of the presidium of the Kola Branch imeni S. M. Kirov, Corresponding Member, Academy of Sciences, USSR reported on the cooperation

SMITH, F.F.

Significance of the composition, structure, permeability to water, and moisture of soils and rocks in the formation of the mean annual temperature of the earth's crust. Trudy VGRI no.1:34-38 '36. (MIRA 34:11)

(Earth temperature)

RUSANOV, Boris Sergeyevich, kand. geologo-miner. nauk, laureat Stalinskoy premii; SHVETSOV, P.F., nauchnyy red.; KEL', N.G., nauchnyy red.; VIL'SHANSKIY, A.L., red.; POLYAKOV, M.G., tekhn. red.

[Hydrothermal movements of the earth's surface] Gidrotermicheskie dvizheniia zemnoi poverkhnosti. Moskva, Akad. nauk SSSR Iakutskii filial Sibirskogo otd-niia, 1961. 225 p. (MIRA 15:3)

1. Chleny-korrespondenty Akademii nauk SSSR (for Shvetsov, Kell').
(Earth movements) (Frozen ground)

SHVETSOV, P.F.

Glaciological problems in oil prospecting in subarctic lowlands. Geol.i geofiz. no.8:36-39 '61. (MIRA 14:9)

1. Severnoye otdeleniye Instituta merzlotovedeniya imeni V.A. Obrucheva, Vorkuta.
(Arctic regions--Petroleum geology)
(Frozen ground)

SHVETSOV, P.F.

Cryogenic geochemical fields in the perennial cryolite zone. Izv.AN SSSR. Ser.geol. 26 no.1:46-51 Ja '61. (MIRA 15:3)

1. Severnoye otdeleniye Instituta merzlotovedeniya AN SSSR, g. Vorkuta. (Cryolite) (Geochemical prospecting)

SHVETSOV, P.F.

Peculiarity of the conditions of coal accumulation on territory with frozen subsoil. Izv.AN SSSR.Ser.geog. no.3:90-95 My-Je '62. (MIRA 15:5)

1. Severnoye otdeleniye Instituta merzlotovedeniya AN SSSR.
(Vilyuy Lowland—Frozen ground) (Vilyuy Lowland—Coal geology)

ANTIPIN, V.I.; BUDANOV, N.D.; KOTLUKOV, V.A.; LEYBOSHITS, A.M.; PROKHOROV, S.P.,, kand.geol.-miner.nauk; SIRMAN, A.P.; FALOVSKIY, A.A.; SHTEYN, M.A.; BASKOV, Ye.A.; BOGATKOV, Ye.A.; GANEYEVA, M.M.; ZARUBINSKIY, Ya.I.; IL'INA, Ye.V.; KATSIYAYEV, S.K.; KOMPANIYETS, N.G.; NELYUBOV, L.P.; PONOMAREV, A.I.; REZNICHENKO, V.T.; RULEV, N.A.; TSELIGOROVA, A.I.; ALSTER, R.K.; SHVETSOV, P.F.; VYKHODTSEV, A.P.; KOTOVA, A.I.; KASHKOVSKIY, G.N.; LOSEV, F.I.; ROMANOVSKAYA, L.I.; PROKHOROV, S.P.; MATVEYEV, A.K., dots., retsenzent; CHEL'TSOV, M.I., inzh., retsenzent; KUDASHOV, A.I., otv. red.; PETRYAKOVA, Ye.P., red. izd-va; IL'INSKAYA, G.M., tekhn. red.

[State of flooding and conditions for the exploitation of coal-bearing areas in the U.S.S.R.] Obvodnennost' i usloviia ekspluatatsii mestorozhdenii ugol'nykh raionov. Pod nauchn. red. S.P.Prokhorova. Moskva, Gosgortekhizdat, 1962. 243 p. (MIRA 15:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii i inzhenernoy geologii. 2. Kafedra geologii i geokhimii goryuchikh iskopayemykh Moskovskogo Gosudarstvennogo universiteta (for Matveyev).
(Coal geology) (Mine water)

IVANOV, Nikolay Sergeyevich; SHVETSOV, P.F., otv. red.; BANKVITSER, A.L., red. izd-va; RYLINA, Yu.V., tekhn. red.

[Heat exchange in the frozen zone of the lithosphere]Teploobmen, v kriolitozone. Moskva, Izd-vo Akad. nauk SSSR, 1962. 198 p. (MIRA 16:1)

1. Chlen-korrespondent Akademii nauk SSSR (for Shvetsov).

(Frozen ground)

SHVETSOV, Petr Filimonovich; KUDASHEVA, I.G., red. izd-va;
MAKOGONOVA, I.A., tekhn. red.

[Frozen grounds, their distribution and significance]
Merzlye sloi zemnye; ikh rasprostranenie i znachenie. Besedy
na geokriologicheskie temy. Moskva, Izd-vo Akad. nauk SSSR,
1963. 100 p. (MIRA 16:7)
(Frozen ground)

SHVETSOV, P.F.; ZAPOROZHTSEVA, I.V.

Frequency and engineering geocryological importance of the increase of the temperature of soils during a period from two to three years in subarctic regions. Probl. Sev. no.7:22-46 '63. (MIRA 17:2)

SAVETSOV, P.F.

Good beginning in the definition of terms in hydro- and engineering geology. Sov.geol. 6 no.8:158-159 Ag '63. (MIRA 16:9)
(Engineering geology--Terminology)
(Water,Underground--Terminology)

ZHESTKOVA, T.N.; FEL'IMAN, G.M.; DUKHIN, I.Ye.; SHVETSOV, P.F.

Formation of glacial horizons in epigenetic frozen strata.
Dokl. AN SSSR 156 no. 3:558-560 '64. (MIRA 17:5)

1. Chlen-korrespondent AN SSSR (for Shvetsov).

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B128/B201

AUTHORS: Birger, L. A., Shvetsov, P. N., Sokov, I. A.

TITLE: Standard devices for the calibration of noise generators in the super-high frequency range

PERIODICAL: Izmeritel'naya tekhnika, no. 1, 1961, 37-40

TEXT: The authors describe a device for testing noise generators in the frequency range of from 1000-10,000 megacycles. A modulation method is employed for amplifying the weak signal. The block diagram of the device is shown in Fig. 1: 1) is the noise generator to be tested; 2) matching transformer; 3) standard noise generator; 4) device for keeping the temperatures constant; 5) tuned load (to room temperature); 7), 8), 9) waveguide connecting links; 10) signal generator; 11) waveguide branching; 12) matching transformer; 13) tuned load; 14) high-frequency modulator; 15) ferrite rectifier for eliminating parasitic noise; 16) high-frequency amplifier; 17) waveguide connecting link; 18) image frequency filter; 19) mixer; 20) heterodyne; 21) i.f. amplifier; 22) amplitude modulator; 23) amplifier for frequency-modulated signal; 24) phase modulator; 25) indicating instrument; 26) video

Card 1/3

Standard devices for ...

amplifier; 27) cathode-ray oscilloscope; 28) calibration line; 29) i.f. noise source (for compensating the i.f. noise); 30) electron modulator; 31) temperature pick-up for keeping the temperature of the standard generator constant; 32) stabilized (400 cycles) power supply unit. The noise source was tested by a comparison of the radiation temperature of the source with that of the standard generator. The measurements were made as follows: 1) tuning of the parts mentioned in 1, 2, and 5 according to amplitude and phase by means of matching transformers; 2) determination of the room temperature (T_z) by means of load (5); the room temperature usually differs from the normal temperature ($T_o = 293^oK$); 3) the standard noise generator with an effective radiation temperature is connected to the input; 4) compensation of i.f. noise by means of i.f. noise generator and connected calibration line; 5) determination of the attenuation factor

$$A = 10 \lg \frac{T_{RG} - T_z}{T_o - T_z} \quad [db]$$

, where T_{RG} is the effective radiation temperature of the noise source to be tested. The final evaluation of the noise generator is made on the basis of equation

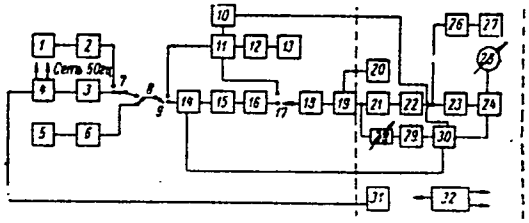
$$A_{RG} = A + A_e + 4.34 \cdot \left(\frac{T_z - T_o}{T_{RG} - T_o} \right) \quad [db]$$

Card 2/3

...andard devices for ...

In this equation, the last summand which is to be multiplied by the temperature-dependent parameter k, is to be neglected unless the noise source to be tested is a radiator with very low temperatures. Expression A_e is obtained from $A_e = 10 \lg \frac{T_e - T_z}{T_o}$. The error in measurement caused by the standard noise generator (± 0.08 db) and the measuring method (± 0.14 db) can be reduced by repeated measurements. After the fifth measurement, it is smaller than ± 0.2 db. The authors also describe the design of the standard generator in waveguide (2600-10,000 megacycles) or coaxial construction (1000-2600 megacycles).

Fig. 1



Card 3/3

L 29931-66 EWP(k)/EWT(d)/EWT(m)/EWP(h)/T/EWP(l)/EWP(v)/EWP(t)/ETI JD/HM

ACC NR: AP6018011 (A) SOURCE CODE: UR/0413/66/000/010/0126/0126

INVENTOR: Voronin, G. I.; Slotin, V. I.; Zaretskiy, B. S.; Krylov, A. I.; Shvetsov, P. N.; Barannikov, G. I.; Eskin, G. I.

ORG: none

TITLE: Ultrasonic unit for fluxless brazing of metals. Class 49, No. 181967

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 126

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ABSTRACT: This Author Certificate introduces a unit for fluxless brazing of metals equipped with a heater and ultrasonic emitter. To increase efficiency, the ultrasonic

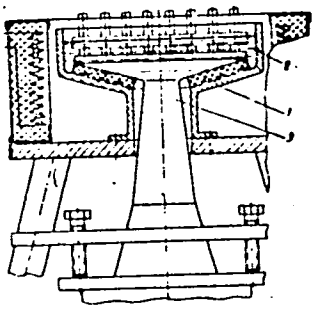

Fig. 1. Fluxless brazing unit

1 - Crucible; 2 - brazing alloy;
3 - ultrasonic emitter.

Card 1/2 UDC: 621.791.351.6.03

L 29931-66

ACC NR: AP6018011 0

emitter is located inside the crucible containing molten brazing alloy, forming the bottom of the latter (see Fig. 1.). Orig. art. has: 1 figure. [AZ]

SUB CODE: 11,13/ SUBM DATE: 29Jan65/ ATD PRESS: 5011

Card 2/2 CC

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(NARVA RESERVOIR--WATER--POLLUTION)

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