

SPRYSKOV, A.A.; GNEDIN, B.G.

Sulfonation reaction. Part 58: Analysis of sulfo mixtures obtained  
in phenol sulfonation. Izv.vys.ucheb.zav.;khim. i khim.tekh. 7  
no. 1:61-65 '64. (MIRA 17:5)

1. Ivanovskiy khimiko-tekhnologicheskii institut, kafedra  
organicheskoy khimii.

SPRYSKOV, A.A.; GNEDIN, B.G.

Study of the sulfonation reaction. Part 59: Sulfonation of phenols at low temperatures. Izv.vys.ucheb.zav.; khim.i khim.tekh. 7 no.6: 935-940 '64. (MIRA 18:5)

1. Ivanovskiy khimiko-tekhnologicheskii institut, kafedra organicheskoy khimii.

YERYKALOV, Yu.G.; SPRYSKOV, A.A.; MATYASH, V.K.

Orientation during the substitution in the aromatic series. Part 14:  
Isomerization of trichlorobenzenes in the presence of complex cata-  
lysts. Zhur.ob.khim. 34 no.1:237-240 Ja '64. (MIRA 17:3)

1. Ivanovskiy khimiko-tekhnologicheskii institut.

YEREMAYOV, V.G.; SPATSKOV, A.A.; RUMYANTSEVA, T.A.

Orientation in substitution in the aromatic series. Part 15:  
Mechanism of dichlorobenzene isomerization. Zhur. org. khim.  
1 no.1:21-24 Ja '65. (MIRA 18:5)

SPRYSKOV, A.A.; POLYAKOVA, G.A.

Orientation in substitution in the aromatic series. Part 16: Effect  
of substituents on the reactivity of the benzene ring. Zhur. org.  
khim. 1 no.1:24-27 Ja '65. (MIRA 18:5)

1. Ivanovskiy khimiko-tekhnologicheskii institut.

...MURAV, A.A., BARVINSKAYA, I.K.

Orientation in the substitution in the aromatic series. Part 17:  
Orientation of the nitro group during nitration of phenol at low  
temperatures. Zhur. org. khim. 1 no.11:1941-1945 N '65.

(MIRA 18/11)

I. Ivanovskiy Khimiko-Tekhnologicheskii institut. Submitted  
October 23, 1964.

SPRYSKOV, A.A.; SMIRNOV, B.P.

Syntheses based on polychlorobenzenes. Part 1. Derivatives of  
2,4, 5-trichlorobenzoic and 2,4,5-trichlorophenylacetic acids of  
1,2,4-trichlorobenzene. Izv.vys.ucheb.zav.; khim. i khim.tekh. 8  
no.2:254-257 '65. (MIRA 18:8)

1. Ivanovskiy khimiko-tehnologicheskii institut, kafedra  
organicheskoy khimii.

LORVSEW, A.I.; GNEZIN, B.G.

Orientation in the substitution in the aromatic series. Part 18:  
Sulfonation of phenol with chlorosulfonic acid in solvents.  
Dokl. Akad. Nauk SSSR. 1965, 194, 1950 N '65. (MIRA 18:12)

I. Ivanovskiy khimiko-tekhnologicheskii institut. Submitted  
November 16, 1964.

KOPTYUG, V.A.; ISAYEV, I.S.; YERYKALOV, Yu.G.; SPRYSKOV, A.A.

36

Isomerization of o-dichlorobenzene in the presence of  $AlCl_3$ .

Zhur. org. khim. 1 no. 12:2081-2083 D '65

(MIRA 19:1)

1. Novosibirskiy institut organicheskoy khimii Sibirskogo ot-deleniya AN SSSR i Ivanovskiy khimiko-tekhmologicheskoy in-stitut. Submitted November 9, 1964.

SPRYSAK, A

POLAND/Diseases of Farm Animals. Diseases Caused by Viruses R  
and Rickettsiae.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40614.

Author : Spryzak, Antoni; Krauss, Stanislaw.

Inst :                     

Title : Coomb's Reaction in Infectious Anemia of Horses.  
(Preliminary Communication).

Orig Pub: Med. weteryn., 1956, 12, No 7, 393-395.

Abstract: When the blood of 20 horses from farms where  
infectious anemia was present, and of two horses  
purposely infected, was examined, the findings  
were basically the same as in examinations of  
healthy control horses. Antiglobulin rabbit  
serum was used in diluted form in the relationship  
of 1:5 to 1:320.

Card : 1/1

SPRYSZAK, Antoni

Determination of blood groups in cattle and its importance for practical breeding. Postepy nauk roln 9 no.2:129-137 Mr-Apr '62.

1. Instytut Weterynarii, Pulawy.

POLAND

SPRYSZAK, Antoni and ZORAWSKI, Cezariusz, Tuberculosis Immunology Laboratory (Pracownia Immunologii Gruźlicy), Veterinary Institute (Instytut Weterynaryjny) in Pulawy (Director: Docent, Dr. Antoni SPRYSZAK)

"Further Observations on the Non-specific Tuberculin Reaction in Cattle."

Warsaw-Lublin, Medycyna Weterynaryjna, Vol 19, No 6, Jun 63, pp 319-326

Abstract: [Authors' English summary modified] The present study indicates that non-specific tuberculin reactions in cattle are frequent in Poland, and that the cause of sensitization in them to mammalian tuberculosis comes from avian type M from hens. Reactions in tuberculous cattle are always more intensive to mammalian than to avian tuberculin, and estimate of results of comparative tuberculinization in individual animals depends on the knowledge of the cow's place of origin, state of health of the herd, and that of the other animals, especially hens on the farm. The 13 references comprise about 5 Polish, 2 Western, and the others in German.

1/1

L 34519-66 T JK  
ACC. NR: AP6024690

(A) SOURCE CODE: PO/0071/65/000/007/0406/0412

AUTHOR: Spryszak, Antoni--Spryshak, A. (Docent; Doctor; Pulawy); Zorawski, \_\_\_\_\_ 27  
Cezariusz--Zhuravski, Ts.

ORG. Immunologic Laboratory of <sup>b</sup>Tuberculosis, Veterinary Institute /headed by B  
Docent, Doctor Antoni Spryszak/, Pulawy (Pracownia Immunologii Gruzlicy  
Instytutu Weterynaryj.)

TITLE: Effect of infection with human, bovine and avian types of tubercle  
bacilli on the results of tuberculin tests

SOURCE: Medyoyna weterynaryjna, no. 7, 1965, 406-412

TOPIC TAGS: tuberculosis, commercial animal, rabbit

ABSTRACT: Study in three groups of seven cows inoculated subcutaneously at 3-9  
months of age with 5 mg of either human tuberculosis strain H37Rv, the bovine  
AN5, or the avian Dh: tuberculin reaction (tested every six weeks) was generally  
highest with the H37Rv strain, but individual differences in the seven animals  
were quite great with all three strains. Strains isolated from the lesions in  
cows on the 231st day after inoculation with H37Rv were highly virulent for

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ACC. NR: AP6024690

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guinea pigs and rabbits. The avian strain induced no lesions of any type. The authors thank Mr. M. Andrzejewski, Chief PGR Siemno in Bydgoszcz, for making possible the carrying out of the research on the animals. Orig. art. has: 2 figures and 3 tables (JPRS)

SUB CODE: 06, 02 /SUEM DATE: none / ORIG. REF: 000/SOV REF: 002/OTH REF:009

2/2 mjs

*Spudis, V.K.*  
SPUDIS, V.K.

Sites of contact of man with malarial mosquitoes in a settlement located in the northern part of Volga-Akhtuba bottom lands; observations of the period of 1952-53 [with summary in English]. Med.paraz.i paraz.bol. no.4:423-426 J1-Ag '57. (MIRA 10:11)

1. Iz epidemiologicheskogo otdela Instituta malyarii i meditsinskoy parazitologii Ministerstva zdravookhraneniya RSFSR (dir. instituta prof. S.N.Pokrovskiy, rukovoditel' epidemiologicheskogo otdela V.M. Mitarnovskiy)

(MALARIA, epidemiology,

epidemiol. survey of village (Rus))

SPUDIS, V.K.

Epidemiological aspects of the spread of malaria in the northern part of the Volga-Akhtuba Flood Plain; with special reference to the construction of the Stalingrad Hydroelectric Station. Report No. 3: Studies on the immunological significance of the malarial mosquito population at various times during the summer. Med. paraz. i paraz. bol. 27 no.4:491-492 J1-Ag '58.

(MIRA 12:2)

1. Iz epidemiologicheskogo otdela Instituta malyarii i meditsinskoy parazitologii Ministerstva zdravookhraneniya RSFSR (dir. instituta - prof. S. I. Pokrovskiy, zav. otdelom V.M. Mitarnovskiy).

(MOSQUITOES,

distribution in Russia, seasonal variations (Rus))

SPULIS, V. K., Cand Med Sci -- (diss) "Prophylaxis of malaria in populated areas, appearing in the zone of influence of the northern section of the Volgo-Akhtubinskaya valley (in connection with the construction of the Stalingrad Hydroelectric Station)." Rostov-na-Don, 1960. 15 pp; (Rostov-na-Don State Medical Inst); 300 copies; price not given; (KL, 24-60, 136)

SPUDIS, V.K.

Malaria conditions in the lower level of the Stalingrad waterway center and malaria prevention measures in the early years of its operation. Med.paraz.i paraz.bol. no.3:291-292 '61.

(MIRA 14:9)

1. Iz Rostovskogo nauchno-issledovatel'skogo instituta meditsinskoy parazitologii (dir. - prof. S.N. Pokrovskiy, rukovoditel' otdela epidemiologii i bor'by s malyariyey i drugimi parazitarnymi zabolevaniyami V.M. Mitarnovskiy).

(MALARIA)

SPUDULI, A.K.

The Akmene cement plant is an enterprise of communist labor.  
TSement 27 no.5:10-11 S-O '61. (MIRA 14:12)

1. Direktor Akmyanskogo tsementnogo zavoda.  
(Akmene, Lithuania---Cement plants)

SPULA, A., mgr (Warszawa)

"Standing security of constructions" by [Dr. Ing.] S. Hasenjäger.  
Reviewed by A. Spula. Przegl budowl i bud mieszk 35 no.5:239  
My '63.

HANSGUT, R., inz.; SPUNDA, J., inz.; BLAHA, J., inz. CSc.

Calculating the suction capacity of propeller pumps from the  
impeller dimensions. Strojirenstvi 14 no.7:483-490 J1 '64.

1. Sigma, Olomouc (for Hansgut and Spunda). 2. Czech Higher School  
of Technology, Prague (for Blaha).

77. Russian Reviews of Western Literature

Gas Turbines and Jet Propulsion, by G. G. Smith (London, 1955, 412 pp), reviewed by Ya. A. Spunde, Novyye Knigi za Rubezhom, Seriya B, Tekhnika, No 2, Feb 57, pp 6-7

This book is a popular treatment of modern gas turbine engines and jet planes. The book may serve as a good text for English-language study in higher educational institutions) and in technical schools. The book should necessarily be studied by people who intend to write in the popular vein on gas turbines and jet planes.

The treatment of US and European gas turbine engines for aircraft in Chapters 10, 11, and 12 contains much outdated information and little at all on recent achievement";...for example, nothing is included on the subject of dual-cascade engines." (U)

SPUNDE, Ya.A., kandidat tekhnicheskikh nauk.

Feasibility of using prolonged expansion cycles in tractor  
engines. Nauch. trudy MAMI no.3:48-55 '55. (MLRA 9:12)

(Tractors--Engines--Carburetors)

SPUNDE, Ya. A., kandidat tekhnicheskikh nauk

Selection of cylinder diameter and piston stroke. Avt. trakt.  
prom. no. 5:12-16 My '55. (MLRA 8:8)

1. Moskovskiy avtomekhanicheskiy institut  
(Automobiles--Engines--Cylinders)

Spunde, Ya. A.

AID P - 2331

Subject : USSR/Engineering  
Card 1/1 Pub. 110-a - 12/17  
Author : Spunde, Ya. A., Kand. of Tech. Sci.  
Title : On the theories of similarity and dimensional analysis  
Periodical : Teploenergetika, 5, 53-54, My 1955  
Abstract : The author presents his comments on B. M. Yakub's article published in this journal, no. 1, 1955. The difference between the theory of similarity and that of dimensional analysis is stressed. Eight Russian references, 1934-1954.  
Institution : Moscow Institute of Automobile Mechanics  
Submitted : No date

SOV/113-58-11-4/16

AUTHORS: Shumskiy, Ye.G., Spunde, Ya.A., Candidate of Technical Sciences

TITLE: Automobile Gas Turbine Engines (Avtomobil'nyye gazoturbinye dvigateli)

PERIODICAL: Avtomobil'naya promyshlennost', 1958, Nr 11, pp 10-17, (USSR)

ABSTRACT: The authors discuss the principles, advantages, technical difficulties, economical factors, and prospects for the introduction of Soviet automobile gas turbine engines. Soviet automobile designs involving gas turbine engines are based on the double-shaft gas turbine engine with heat exchanger. The working principle of this type is briefly explained. Then the operation of axial and radial gas turbines used in low duty engines in industry is described (fig. 1), and projects of utilization of radial gas turbines in automobile engines are mentioned. The bulk of the article is concerned with a description and evaluation of American, English, French, Italian, and Spanish automobile gas turbine engines. The authors conclude that no decisive improvement of the present piston engines can be expected and the future belongs to gas turbine engines. But for a com-

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Automobile Gas Turbine Engines

SOV/113-58-11-4/16

paratively long period, such gas turbine engines will be more expensive than piston engines, and the fuel economy will be slight. Thus a general changeover to automobile gas turbine engines, especially in light cars, would not be justified. Since the limits set by the piston engines to a further technical development of heavy cargo trucks and tractors with engines of 300 to 400 HP and more are already felt, the installation of proper gas turbine engines in these cases might yield a substantial technical and economical effect. Gas turbine engines also hold prospects for certain types of trucks used in the northern districts of the USSR. Probably within the next 5 to 6 years gas turbine engine designs will come out that are suitable for more commonly used types of trucks. It is pointed out that an essential part of the initial investment expenses in the change-over to automobile gas turbine engines can be reduced, if all relevant developmental work is closely connected with that of low duty industrial gas turbine engine, which is needed in

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Automobile Gas Turbine Engines

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many sectors of the national economy. There are 7 diagrams, 5 photos, 1 graph, and 1 table.

ASSOCIATION: Moskovskiy avtomekhanicheskii institut (The Moscow Institute of Automotive Mechanics)

1. Automobile industry--USSR    2. Passenger vehicles    3. Gas  
turbines--Operation    4. Heat exchangers--Performance

Card 3/3

ARSEN'YEV, Yu.D., kand.tekhn.nauk; SPUNDE, Ya.A., kand.tekhn.nauk

Designing radial turbines. Energomashinostroenie 5 no.2:27-31  
F '59. (MIRA 12:3)

(Gas turbines--Design)

L 2574-66 EWT(m)/EWP(w)/EWP(v)/T-2/EWP(k)/ETC(m) WW/EM  
ACCESSION NR: AP5019293 UR/0143/65/000/007/0066/0073 45  
621.165.155 44  
B

AUTHOR: Krylov, Ye. P. (Engineer); Spunde, Ya. A. (Candidate of technical sciences)

TITLE: Effect of the gap between <sup>qL</sup>rotor blades and housing of a radial turbine on its performance

SOURCE: IVUZ. Energetika, no. 7, 1965, 66-73

TOPIC TAGS: gas turbine, radial turbine

ABSTRACT: The results of a 1959 experimental study of dissipation in an air radial turbine are reported. The relative internal turbine efficiency was determined; Re number variation was  $(1.1-1.7) \times 10^6$ ; turbine pressure drop, 1.25 and 1.67; gap variation, 0.15-7 mm. It is found that the gap (clearance) loss plays an important role in the axial part of the rotor, and only a very little role in the radial part. The gap swirl results in a gap-to-channel gas flow, and

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L 2574-66

ACCESSION NR: AP5019293

this phenomenon reduces the gas leakage around the rotor-blade tips. The above phenomenon is also enhanced by Coriolis forces. In subsequent testing of various radial turbines, it was noticed that the turbine efficiency depended only very slightly on the gap value. It is found that: (1) The gap loss is considerably lower in radial centripetal turbines than in axial turbines; hence, the gaps in radial turbines need not be very small; (2) An empirical formula has been developed for calculating the gap loss; (3) A gas-dynamic scheme is suggested to explain the low gap loss. Orig. art. has: 7 figures and 14 formulas.

ASSOCIATION: Moskovskiy avtomekhanicheskiy institut (Moscow Automechanical Institute)

SUBMITTED: 08May64

ENCL: 00

SUB CODE: PR

NO REF SOV: 009

OTHER: 001

Card 272

SPUR, Miroslav

Population of the city of Usti nad Labem. Sbor zem 68 no.1:48-52 '63.

ZAYEVA, S.P., ALEKSEYEVA, L.N., RATENBERG, S.N., KOPTELOVA, M.N., MEDNE, K.K.  
SPURE, I.P.

Experimental studies on furazolidone. Zhur.mikrobiol.epid. i immun.  
29 no.7:15-20 J1 '58 (MIRA 11:8)

1. Iz Instituta organicheskogo sinteza AN Latvyskoy SSR.  
(FURAN, DERIVATIVES,  
furazolidon, pharmacol. (Rus))

SEUDEK, J.

National conference on road construction. p.24.  
(Silnice, Vol. 6, No. 2, Feb. 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

SPUREK, J.

Results of the 1st National Conference on Roads, 1957.

P. 1, (Silnice) Vol. 6, no. 7/8, July/Aug. 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) Vol. 6, No. 11 November 1957

SPUREK, J.

" Experiences in the use of a bituminous binding mixture having less dustiness and a reduced thinning quality at the testing sectors of gravel highways."

p. 1 (Silnice, Vol. 7, No. 2, February 1958, Praha, Czechoslovakia)

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

SPUREK, J., prof., inz., dr.

"Soil and concrete stabilization" by [inz.] Fr.Pospisil.  
Reviewed by J.Spurek. Inz stavby 10 no.11:439-440 N '62.

SPUREK, Josef, prof. dr. inz.

Transportation arteries of Moscow. Siln doprava 12 no.11:  
2-4 N '64.

SPUREK, Josef, prof., inz., dr.

Information on highway construction in Belgium. Sil doprava  
10 no.12:23-27 D '62.

1. Ceske vysoke uceni technicke, Praha.

SPUREK, J., prof. inz. dr.

Italian highways. Siln doprava 12 no.12:16-19 D '64.

SPUREK, J., prof., inz., dr.

"Handbook for construction engineers" edited by [prof., inz., dr.]  
Ferdinand Schleichert. Vol.3. Reviewed by J. Spurek. Inz stavby  
11. No.2:79-80 F '63.

SPUREK, J., prof., dr. inz.

Information u road construction and maintenance in Rumania.  
Siln doprava II no.8:16-20 Ag '63.

1. Ceske vysoke uceni technicke, Praha.

SPUREK, J., prof., dr. inz.

Concept of the city public transportation solution in  
Vienna. Siln doprava 11 no.11:18-21 N '63.

1. Ceske vysoke uceni technicke, Praha.

SPURICHEVA, V. Y.

Properties of ammoniacal accumulator paste. M. F. Skalozubov  
and V. V. Spuricheva (*J. appl. chem. USSR*, 1954, 27, 310-313).  
—Prep., properties, and additions slowing down the setting of the  
paste are studied in order to determine the best procedure for  
adoption in large-scale production of the ammoniacal accumulator  
paste. S. K. Lachowicz.

1. SPURIS, Z.
2. USSR (600)
4. Heteroptera - Latvia
7. Data on fauna of the Heteroptera of the Latvian S.S.R. Latv. PSR Zin. Akad. Vestis 1, 1951

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

1. SPURIS, Z.
2. USSR (600)
4. Hydrology - Dridza Lake, Latvia
7. Hydrologic characteristics of Dridza lake. Latv. PSR Zin. Akad. Vestis 5, 1951

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

SPURIS, Z.

Principal phytocoenoses of Lielauce Lake and its vegetation. Latv.PSR Zin.  
Akad.Vēstis no.3:127-137 '52. (MLBA 6:6)

1. Latvijas PSR Zinātnu akadēmijas Bioloģijas institūts.  
(Lielauces, Lake, Latvia - Fresh-water flora) (Fresh-water flora -  
Lielauces, Lake, Latvia)

1. SPURIS, Z.
2. USSR (600)
4. Dridza Lake, Latvia - Hydrology
7. Hydrologic characteristics of Dridza lake.  
Latv. PSR Zin. Akad. Vestis 5. 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

SPURIS, ZARDIS

Strekozy Latviiskoi SSR. Riga, Izd-vo Akademii nauk Latviskoi SSR, 1956.  
94 p. (Dragonflies in Latvia, In Russian. illus., maps, bibl.)

CU

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

SECRET, 4.

Domestic insects injure food grasses which are being introduced. p. 161.

BIOL. ZINATNIAKA NAUKA; SELSKOMU L LESKOMU KHUZIAISTVU. (Latvijas PSR Zinatnu akademijs. Biologijas zinatnu nodala) Riga, Latvia, No. 3, 1957.

Monthly list of East European Accessions (ZEAE), IC, Vol. 8, No. 8,  
August 1959.  
Uncla.

SPURIS, Z. D.

"Basic Elements of the Insect Fauna of the Great Lakes of Latvia and Their Importance as Fish Food." Cand Biol Sci, Inst of Zoology, Acad Sci USSR; Inst of Biology, Acad Sci Latvian SSR, Riga, 1954. (RZhDiol, No 5, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

SPURIS, Z.D.

Data on cicadas, plant lice, and true Hemiptera living in the vicinity of water in the Latvian S.S.R. Ent.oboz. 34:178-179 (MLBA 9:5)  
'55.

1. Biologicheskiy institut Akademii nauk Latvyskoy SSR i  
Latviyskoye otdeleniye Vsesoyuznogo entomologicheskogo obshchestva.  
(Latvia--Insects)

SPURIS, Zandis Davida d., kand. biol. nauk; PETERSONE, A., red.; KRASOVSKA, M.,  
tekh. red.

[The biology of our lakes] Musu ezeru biologija. Riga, Latvijas  
Valsts izdevnieciba, 1958. 97 p. (MIRA 14:12)  
(Latvia--Freshwater biology)

SPURIS, Z.

Birdbanding in Latvia from 1950 to 1959. Vestis Latv ak no.8:187-190  
'60. (EEAI 10:9)

(Birds)

SPURIS, Z.

Fourth Baltic Conference on Ornithology. Vestis Latv ak no.10:  
185-186 '60. (EEAI 10:9:10)

(Baltic States--Ornithology)

SPURIS, Z.D.

A new entomological publication. Ent. oboz. 39 no.2:486 '60.  
(MIRA 13:9)

(Latvia---Entomology---Periodicals)

SPURIS, Z.D.

"Materials on the study of insects of the White Russian S.S.R.;  
dragonflies (Odonata) of the northeastern part of the White  
Russian S.S.R." by A.I. Radkevich.. Reviewed by Z.D. Spuris.  
Ent. oboz. 39 no.2:498-499 '60. (MIRA 13:9)  
(White Russia--Dragonflies) (Radkevich, A.I.)

SPURIS, Z.D., otv. red.; VILKA, Ye.K.[Vilka, E.], red.; LUSIS, Ya.Ya.  
[Lusis, J.], red.; TAURIN'SH, E.Ya.[Taurins, E.], red.;  
BAZHANOVA, S., red.; PILADZE, Ye.[Piladze, E.], tekhn. red.

[Ecology and migrations of birds in the Baltic; transactions]  
Ekologiya i migratsii ptits Pribaltiki; trudy. Red.koll.:  
E.K.Vilka i dr. Riga, Izd-vo Akad. nauk Latviiskoi SSR, 1961.  
367 p. (MIRA 15:3)

1. Pribaltiyskaya ornitologicheskaya konferentsiya. 4th, Riga.  
1960. 2. Institut biologii AN Latviyskoy SSR (for Vilka, Spuris).
3. Latviyskaya sel'skokhozyaystvennaya akademiya (for Taurin'sh).  
(Baltic States--Birds)

SPURIS, Z.; SMITS, V.; DUMINS, J., red.; KLAVINS, E., red.; FREIMANIS, V.,  
tekhn. red.

[Bird reserve] Putnu rezervats. Riga, Latvijas Valsts izdev-  
nieciba, 1962. 157 p. illus. (MIRA 16:2)  
(Engure Lake region--Birds)

TRNKA, Vaclav, doc.; SKRIVAN, Jiri, C. Sc.; SPURNA, Anezka

Some problems of threatened abortion. Cesk. gynek. 26 no.9:670-675  
N '61.

1. I gyn.-por. klin KU v Praze, prednosta prof. dr. Klaus, Dr. Sc.

(ABORTION)

CZECHOSLOVAKIA

SULA, L; SULOVA, J; SPURNA, M.

Research Institute of Tuberculosis (Vyzkumny ustav ~~xxxx~~  
tuberkulozy), Prague (for all)

Prague, Rozhledy v tuberkulose, No 8, 1963, pp 569-577

"Virulence and Immunization Effect of INH Resistant  
Mycobacterial Strain No. 115 ~~XXXXXXXWEISXWEIXE~~  
"WEISZFEILER"."

CZECHOSLOVAKIA

SULA, L; SULOVA, J; SPURNA, M.

Research Institute of Tuberculosis (Vyzkumny ustav ~~laborator~~  
tuberkulozy), Prague (for all)

Prague, Rozhledy v tuberkulose, no 9, 1963, pp 636-643

"The Virulence and Immunizing Efficacy of Isoniazid Resistant  
~~Mycobacterium~~ Mycobacterium SP. No. 115 'Weiszfeiler'."

CZECHOSLOVAKIA

SPURNY, Z; SPURNY, F

1. Institute of Nuclear Research, Czechoslovak Academy of Sciences, Rez near Prague, (for ?). 2: Institute of Dosimetry and Application of Ionizing Radiation, Institute of Technology, Prague - (for ?)

Prague, Collection of Czechoslovak Chemical Communications,  
No 9, September 1966, pp 3702-3709

"Radioluminescence in a mixture of benzene and methyl alcohol."

SPURNEY, M.; DOSTALEK, M.

"Microbiology of underground water in areas with potential mineral oil deposits."

p. 59 (Prace) No. 26/30, 1956  
Prague, Czechoslovakia

SC: Monthly Index of East European Accessions (EEAI) LC. VOL. 7, no. 4,  
April 1958

S/081/62/000/005/100/112  
B166/B101

AUTHORS: Spurnik, Vladimir, Svodoba, Jiri, Križek, Vladimir

TITLE: Plasticizers for polyvinyl butyral

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 5, 1962, 608, abstract  
5P35 (Kaučuk a plast. hmoty, no. 3, 1961, 98-100)

TEXT: In order to establish the possibility of replacing plasticizer type Flexol 3GH by dibutyl sebacate a study has been made of the solvation rate, the degree of sweating with different plasticizer contents, the deformation at normal and elevated temperatures, and the adhesion to glass of polyvinyl butyral films. It was established that dibutyl sebacate is not suitable as a plasticizer for polyvinyl butyral, since with a content of 30% it sweats, and with a content of 18% the polyvinyl butyral film is not sufficiently elastic and is less frostproof than films plasticized with Flexol 3GH. [Abstracter's note: Complete translation.]

Card 1/1

2  
A spectrophotometric method for the determination of chlorine. Ed. Spurný (Czechoslov. Acad. Sci., Prague). *Nature* 183, 1390 (1959).—A spectrophotometric method for the detn. of low concns. of free Cl has been found by using the absorption max. of Cl dissolved in CCl<sub>4</sub> at about 335 mμ. The sensitivity of the method is about  $2 \times 10^{-4} M$  or about 1 γ Cl/ml. Bernard Rubin

SPURNY, Frantisek, inz.

Techniques of making power hammer dies abroad and in Czechoslovakia.  
Stroj vyr 10 no.2:71-74 '62.

1. Zavody V.I.Lenina, n.p., Plzen.

L 19470-65 EWT(d)/EWT(m)/EWA(d)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(l)  
ACCESSION NR: AP4045651 Pf-4 HW Z/0057/64/000/009/0441/0445

AUTHOR: Spurny, F. (Engineer) (Plzen); Modracek, O. (Engineer)

TITLE: A new method of hot extrusion of hard-to-deform steels B

SOURCE: Hutnik, no. 9, 1964, 441-445 8

TOPIC TAGS: alloy extrusion, brittle alloy extrusion, hydrostatic extrusion, hot hydrostatic extrusion

ABSTRACT: A method of hot hydrostatic extrusion (Czechoslovak patent, No. 88180, 15 January 1959) of hard-to-deform alloys is described. According to this method (see Fig. 1 of the Enclosure), pressure is transferred to billet 6 by molten substance 5, whose melting temperature is lower than the temperature of the billet. After the billet has been inserted into container 1 and ram 3 has been withdrawn to the rear position, the remaining space in the container is filled with molten substance 5 through hole 2. With the forward movement of the ram, the molten substance presses the billet through die 4 until the whole billet is extruded leaving no discard. Some of

Card 1/3

L 19470-65  
ACCESSION NR: AP4045651

the molten substance adheres to the billet surface and serves as a lubricant. Orig. art. has: 6 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 01

SUB CODE: MM, IE

NO REF SOV: 000

OTHER: 001

Card 2/3

L 19470-65  
ACCESSION NR: AP4045651

ENCLOSURE: 01

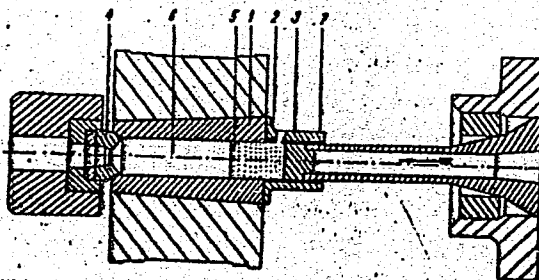


Fig. 1. Horizontal press for discardless extrusion

1 - Container; 2 - hole; 3 - ram; 4 - die; 5 - molten substance; 6 - billet; 7 - packing.

Extrusion Press  
14

Card 3/3

SPURNY Ivan., MUDr.

Addison's disease.

Vnitr. lek., Brno 1 no.2:147-153 Feb 55.

1. Z II. vnitřní Kliniky MU v Brně, přednosta prof. MUDr Jiří

Polcák

Brno, Grohova 33

(ADDISON'S DISEASE)

SPURNY, Ivan, MUDr.

Symptomatic hypertension of endocrine-humoral origin.  
Vnitr. lek., Brno 1 no.5:352-357 May 55.

1. Z II. vnitřní kliniky MU, přednosta prof. MUDr. Jiri  
Polcak, Brno, Grohova 33.

(HYPERTENSION

symptomatic, of endocrine-humoral origin.)

CZECHOSLOVAKIA/Human and Animal Physiology - Internal Secretion. T-7  
The Thyroid.

Abs Jour : Ref Zhur - Biol., No 18, 1958, 34363

Author : Rezler, Dusan; Spurny, Ivan

Inst : -

Title : Treatment of Thyrotoxicosis with Potassium Perchlorate.

Orig Pub : Vnitřní lékařství, 1957, 3, No 12, 1089-1095

Abstract : For 2-16 months, 11 patients with Basedow's disease, 31 patients with toxic adenoma, and 137 patients with thyrotoxicosis of medium severity were given internally 0.2 gr of potassium perchlorate 4 times daily. Best results were obtained in patients of the 3rd group, who recovered almost completely. In the 2nd group the obtained results were not as favorable as in the 3rd group. It is recommended that methylthiouracil (0.5 gr 3 times daily) should be administered simultaneously. -- V.V. Yazvikov

Card 1/1

SPURNY, I.  
SURNAME, Given Names

Country: Czechoslovakia

(3)

Academic Degrees: MD

Affiliation: Endocrinological Department of the Faculty Hospital (Endokrinologické oddelení fakultní nemocnice), Brno; Director: Head Physician D. Rezler, MD.

Source: Prague, Vnitřní Lekarství, Vol VII, No 6, June 61, pp 648-655.

Data: "Carbimazol-Spofa," New Thyreostatic of Czechoslovak Manufacture."

Authors: SPURNY, I.  
KUMAN, M.

232

GPO 981643

SPURNY, J. KUBEK, J. RICHTER, J.

Tuff-concrete freestones. p.127 (Pozemni Stavby, Vol.5, no.3, Mar. 1957) Praha

SO: Monthly List of East European Accession (EEAL) LC, Vol.6, no.7, July 1957. Uncl.

376.107, 3111  
CZECHOSLOVAKIA/Physical Chemistry - Colloid Chemistry,  
Dispersion Systems.

B-14

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 20848

Author : Jiri Spurnay, Bohoslav Dobias, Vaclav Hejl.

Inst : -

Title : Study of Flotation by Surface Potential on Mineral-Solution  
Border. I. Indirect Determination of Zeta Potential by  
Sedimentation Rate.

Orig Pub : Chem. listy, 1957, 51, No 2, 215-218; Sb. chekhosl. khim.  
rabot, 1957, 22, No 5, 1530-1533.

Abstract : The sedimentation rate V and the floatability of fluorite,  
baryte and pyrite particles depending on pH was studied.  
The results show that V appears as a measure of the floata-  
bility of these system in a certain range of pH.

Card 1/1

Spurny, J.

CZECHOSLOVAKIA/Physical Chemistry - Colloid Chemistry. B-14  
Dispersed Systems.

Abs Jour: Referat Zhur - Khim, No. 9, 1959, 30715

Author : Spurny, J.

Inst : Not given

Title : Determination of the Zeta Potential in the  
System Mineral-Solution from Sedimentation  
Rate Measurements.

Orig Pub: Rudy, 1958, No 8, 282-286

Abstract: Experiments with fine suspensions of quartz,  
fluorite, and carborundum have demonstrated  
the advantages of the sedimentation rate method  
for determining the zeta potential. The chief  
advantages of the method are the reproducibility  
of the results and the simplicity of the appa-  
tus. -- Summary by the author.

Card 1/1

52

SPURNY, J.

Flotation of graphite. I. Flotation with normal aliphatic alcohols.  
In German. Coll.Cz.Chem. 24 no.9:2898-2902 S '59. (EAI 9:5)

1. Laboratorium für anorganische Chemie, Tschechoslowakische Akademie  
der Wissenschaften, Prag.

(Graphite)

(Flotation)  
(Alcohols)

(Aliphatic compounds)

SPURNY, J.; DOBIAS, B.

Study of the mineral-solution interface potential for purposes of flotation research. II. Investigation of changes of  $\zeta$ -potential by means of  $F$  function. In German. Coll.Cz.Chem. 24 no.11:3663-3667 No'59. (KRAI 9:5)

1. Institut fur anorganische Chemie, Abteilung fur Flotation, Tschechoslowakische Akademie der Wissenschaften, Prag.  
(Phase rule and equilibrium) (Minerals) (Solutions) (Flotation)

DOBIAS, B.; SPURNY, J.; FREUDLOVA, E.

Study of the mineral-solution interface potential for purposes of flotation research. III. Study of the behavior of an anion and cation collector at the interface between  $\alpha$ -corundum and collector solution. In German. Coll.Cz.Chem. 24 no.11:3668-3677 N '59. (REAL 9:5)

1. Institut fur anorganische Chemie, Abteilung Flotation, Tschechoslowakische Akademie der Wissenschaften, Prag und Institut fur Mineralogie, Technische Hochschule fur Chemie, Prag.

(Phase rule and equilibrium) (Flotation) (Anions)  
(Cations) (Corundum)

Spurny, J.

Distr: 4E2c

✓ Theory of flotation. Bohuslav Dobiš and Jiří Spurný  
(Českoslov. akad. věd, Prague). *Chem. listy* 43, 165-166  
(1950).—An extensive review of the properties of minerals,  
the relation of their structure to flotation, natural and arti-  
ficial flotability, flotation parameters, and equil. based on  
the Young and Gibbs theory, and the kinetics of flotation  
processes. 201 references. L. J. Urbánek

ORIGIN : CZECHOSLOVAKIA  
CATEGORY : Laboratory Equipment. Apparatus, Their Theory,  
Construction and Application  
ISS. JOUR. : RZKhim., No. 1 1960, No.1042  
AUTHOR : Dobias, B.; Spurny, J.  
INST. : -  
TITLE : Apparatus for Studying the Zeta-Potential of  
the Mineral - Solution Inter-Phase by the Method  
of Electroosmotic Transfer on Mineral Dia-  
ORIG. PUB. : Chem. listy, 1959, 53, No 3, 274-277  
ABSTRACT : A description is given of the apparatus and of  
the technique of its operation for the determi-  
nation of the speed of electroosmosis on mine-  
ral diaphragms, based on measuring the speed of  
the shift of an air bubble in a capillary.--  
M. Ryba  
  
\*phragms for the Purpose of Investigating  
Flotation

CARD: 1/1

F-23

S. PURNY, J.

18. "The Collection of Czechoslovak Chemical Communications, Vol. 27, No. 1, April 1962 (continued).
19. "The Oxidation of Soluble Ferrate with Electrochemical Methods," J. KOLAR, Electrochemical Institute, Bratislava, pp 914-919.
20. "The Theory of the Boundary Layer of a Finite Aliphatic Crystal," E. KLIM, Institute of Physical Chemistry at the Czechoslovak Academy of Sciences, Prague, pp 920-921.
21. "A Contribution to the Problem of the Kinetics of Adsorption on a Semiconductor," E. KLIM, Institute of Physical Chemistry at the Czechoslovak Academy of Sciences, pp 928-933.
22. "The Plausibility of Graphite. Part II. A Contribution to the Theory of the Formation of Graphite in Electrolytic Solutions," J. SQUERY and B. DOLING, Institute of Geochemistry and Mineralogy, Bratislava at the Czechoslovak Academy of Sciences, Prague, pp 931-937.
23. "The Sorption of Radioisotopes on Sediments. Part II. The Ferric Sulfate - Strontium Sulfate System, and the General Rules of Sorption by Ferric Hydroxide," Z. KOLAR, Nuclear Research Institute of the Czechoslovak Academy of Sciences, Rež near Prague, pp 938-950.
24. "The Sorption of Radioisotopes on Sediments. Part VII. Sorption of Strontium by Manganese Hydroxide," Z. KOLAR, Nuclear Research Institute of the Czechoslovak Academy of Sciences, Rež near Prague, pp 951-959.
25. "Halogen Complexes of Ruthenium with Pyridine and its Methyl Homologues. Part III. Tetrahaloruthenium and Tetrahaloruthenium Complexes," J. ŠOUPEK, Research Institute for Macromolecular Chemistry, Brno, pp 960-966.
26. "Automatic Paper Electrophoresis," J. HODIN, K. PROCHÁZKA and J. ŠOUPEK, Development Workshop and Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague, pp 969-973 (English article).
27. "Organosilicon Compounds. Part XXIX. The Kinetics of the Direct Synthesis of Silicon Methylhydrides," J. JEDLIČKA, K. KRAJČ and V. BUDAVY, Institute for the Theoretical Basis of Chemical Engineering at the Czechoslovak Academy of Sciences, Prague, pp 974-978.
28. "On the Properties of Sulfuric Catalysts. Part IV. The Hydration of Acids," B. LAMDA and O. VÍZNER, Institute of the Institute of Synthetic Polymers and Macromolecules at the Advanced School of Chemistry in Prague.

DOBIAS, B.; CIBULKA, J.; SPURNY, J.

Electrokinetic and adsorption examination of the behavior of multivalent ions in the flotation of zinnwaldit. Coll Cz Chem 27 no.6:1369-1373 Je '62.

1. Institut für Geochemie und mineralische Rohstoffe, Tschechoslowakische Akademie der Wissenschaften und Institut für Erzforschung, Prag.

SPURNY, J.; DOBIAS, B.

Flotation of graphites. Part 3 : Adsorption of the cetyltrimethyl-ammoniumbromide and its effect on flotation. Coll Cz Chem 27 no.8:1770-1776 Ag '62.

1. Institut für Geochemie und mineralische Rohstoffe, Tschechoslowakische Akademie der Wissenschaften, Prag.

SPURNY, J.; DOBIAS, B.

Adsorption mechanism of n-amylammonium chlorides on the oxidated galenite surface. Coll Cz Chem 28 no.1:21-25 Ja '63.

1. Institut für Geochemie und mineralische Rohstoffe, Tschechoslowakische Akademie der Wissenschaften, Prag.

DOBIAS, B.; ZAKOUTSKA, J.; SPURNY, J.

Electrokinetic examination of the flotation of nephelines. Coll  
Cz Chem 28 no.1:131-136 Ja '63.

1. Institut für Geochemie und mineralische Rohstoffe, Tschechoslowakische  
Akademie der Wissenschaften, Prag und Institut für Mineralogie,  
Technische Hochschule für Chemie, Prag.

SPURNY, Jiri; DOBIAS, Bohuslav

Flotation kinetics. Chem listy 57 no. 5:449-466 My '63.

1. Ustav geochemie a nerostnych surovin, Ceskoslovenska akademie ved, Praha (for Dobias).
2. Ustav anorganicke chemie, Ceskoslovenska akademie ved, Praha (for Spurny).

FISER, K.; SPURNY, K.

Determination of small quantities of arsenic in biologic materials.  
Pracovni lek. 2 no.5:227-234 15 Nov 50. (CIML 20:6)

1. Of the Institute of the Industrial Medicine (Head--Prof.J.Teisinger,M.D.), Prague.

SPURNY, Kvetoslav

The analysis of niobium and tantalum. I. Cathodic reduction of niobium. Oldřich Tomíček and Kvetoslav Spurný (Charles Univ., Prague, Czech.). *Chem. Listy* 46, 6-8 (1952).—Reduction of Nb with Zn/Hg, proved unsuccessful. Good results were obtained by electroreduction of  $Nb^{5+}$  in 26%  $H_2SO_4$  on a Hg cathode in a special app.  $Nb^{3+}$  thus formed is oxidized with  $Fe^{3+}$  and the resulting  $Fe^{2+}$  is titrated with 0.01 N  $Ce(SO_4)_2$  with *o*-phenanthroline as indicator. The presence of Ta does not interfere. Ti is also reduced quantitatively. II. Volumetric estimation of titanium in the presence of niobium and tantalum. *Ibid.* 0-11.—Ti salts are reduced with Zn/Hg, in 25% tartaric acid in a stream of  $H_2$  even in the presence of Nb, Ta, V, and Fe.  $Ti^{3+}$  ions are titrated potentiometrically with 0.05 N  $FeCl_3$  at 80° in a stream of  $H_2$  or with methylene blue or  $NH_4CNS$  as indicators. The method is suitable for detg. Ti, Nb, and Ta in steels and ores. III. Application of morine and quercetine for testing and gravimetric estimation of niobium and tantalum. Oldřich Tomíček and Václav Holeček. *Ibid.* 11-14.—Morin and quercetin form red ppts. with Nb and orange ppts. with Ta. The qualitative test is best carried out in strongly acidic solns. contg. 20-25% (by vol.)  $H_2SO_4$  by adding alc. solns. of the agents (15 mg. in 3 ml. EtOH). Ti gives a dark-red ppt. even in neutral solns. Detn. of Ta: Fuse sample contg. approx. 20 mg.  $Ta_2O_5$  with 1 g.  $KHSO_4$ . Dissolve the melt either in 30 ml. cold satd.  $(NH_4)_2C_2O_4$ , or in 30 ml. 10% tartaric acid, or in 50 ml. of 14.4 N  $H_2SO_4$ . To the oxalate and tartrate solns. add 25 ml. of concd.  $H_2SO_4$ . Dil. to 100 ml., heat to 50-60°, and treat dropwise with excess of a soln. contg. 30 mg. morin or quercetin in 6 ml. MeOH. Stir well. Boil for 2-4 min. and allow to stand overnight. Filter, wash with 1% NaCl soln. which is 0.1 N in  $H_2SO_4$ , and finally ignite to  $Ta_2O_5$ . Since  $Ta_2O_5$  adsorbs  $SO_4^{2-}$ , repptn. is necessary. The detn. of Nb is similar. The pptn. requires larger excess of reagents which are used in 2% Me<sub>2</sub>CO solns. Repptn. is advisable. M. Hudlický

SPURNY, K.

TOMICKEK, O.; SPURNY, K.; JERMAN, L.; HOLECEK, V.

Analytical determination of niobium and tantalum [in German with  
summary in Russian]. Sbor.Chekh.khim.rab. 18 no.6:757-779 D '53.  
(MLRA 7:6)

1. Institut analiticheskoy khimii Karlova universiteta, Praga.  
(Niobium) (Tantalum)

CZECH

3774. DETERMINATION OF DISPERSION OF INDUSTRIAL DUST. Spurny, K.  
(Prac. Lék. (Industr. Med., Prague), 1954, vol. 6, (2), 104-108; abstr. in  
Occup. Saf. Hlth, July/Sept. 1954, vol. 4, 163). Means of ascertaining the  
concentration of dust by normal, ultra and electron microscopic methods,  
optical methods and methods based on sedimentation are described. The author  
mentions the need for more exact methods of estimating dispersion of dust and  
for estimating the size of the particles and their biological effects.

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**Excerpta Medica 1/3 sec 17 Mar 55 Pub. Health, Social Medicine**

1304. SPURNÝ K. \*Kontrolní odebrání současných a souměrných vzorků kapalino-  
vým pračnoměrem (impingerem). Collection of contemporaneous  
and localized control samples with a fluid dust counter

(impinger) PRACOVNI LÉKARSTVI (Praha) 1954, 6/3 (159-161) Graphs  
Tables 1 Illus. 1

In this paper a method of collection of several dust samples at the same time from  
approximately the same site with a fluid dust counter (impinger) is described. The  
air flow is induced by a suction pump with the velocity of 2-3 l./min. The air vol-  
ume is measured by a dry gasometer. The dust of the sucked air is collected in  
ethanol of the impinger and the number of dust particles is counted in Bürker's  
chamber. The method has proved to be valuable in practice in the department of  
industrial hygiene of the hygienic station in Prague.

Rejsek - Prague

SPURNY, Kvetoslav

# CZECH

Determination of aerosols and vapors of beryllium and its compounds in the atmosphere. Kvetoslav Spurny and Pravoslav Bilek (HES-UNV, Prague, Czech.). *Pracovní Listy* 7, 17-22 (1955).—Three colorimetric methods were checked and the results compared. The interfering influence of Fe, Al, Zn, Ni, Cu, Mn, Co, Zr, Cd, Pb, Mg, and Ca was substantially reduced by the di-Na salt of ethylenediaminetetraacetic acid. Methods of collecting samples of air by means of impingers and their solution are described. L. J. Urbánek

MS 244

Czechoslovakia/Fitting Out of Laboratories - Instruments, Their Theory, Construction, and Use, H

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62024

Author: Spurny, Kvetostoslav; Bilek, Pravoslav; Simova, Helena; Nausova, Jana

Institution: None

Title: Verification and Improvement of Gravimetric Method for Determination of Dust Content

Original

Periodical: Prezkouseni a doplneni vazkove metody na stanoveni prasnosti, Pracovni lekar., 1954, 6, No 2, 88-93; Czech; Russian and English resumés

Abstract: It is shown that as filter can be used cotton and glass wool, the former having better filtering characteristics but being less sterile since it contains more extraneous particles. The latter retains less well the entrapped particles and is therefore more convenient for determination of average size of dust particles, distribution of particles by size, etc.

Card 1/1

SPURNY, Kvetoslav, Dr.

Present state of physical chemistry of aerosols and their relation  
to dust-induced pulmonary diseases. Pracovni lek. 8 no.5:378-380  
Oct 56.

(PNEUMOCONIOSES, etiology and pathogenesis,  
physical chem. aspects of aerosols (Cz))

(AEROSOLS,  
physical chem. factors in etiol. of pneumoconioses (Cz))

Spurný, K.

*Chem* ✓ Laboratory preparation of ultrafiltration membranes.  
K. Spurný and V. Vondráček (Hyg. epidemiol. stanice  
ONV, Prague). *Chem. Listy* 50, 1331-4 (1956).—A method  
is described for a cheap prepn. of dinitrocellulose (D) ultra-  
filters. Porosity is detd. by the viscosity of I. The in-  
fluence was studied of propylene glycol on the properties of  
the filters. One series of filters is suitable for the koni-  
metric, the other for the gravimetric, detn. of aerosols.  
L. J. Urbánek

2

6000

*BM* *RSH*

SPRURNY A.

SPRURNY, Kvetoslav; VONDRACEK, Vladimir

New filter material for anti-dust respirators. Pracovni lek. 9 no.3:  
217-219 June 57.

1. Laboratore HES-UNV v Praze.

(RESPIRATORS,

filter material in protection against dust (Cz))

(DUST,

anti-dust respirators, filter material (Cz))

SPURNY, K.

2818. Analytical methods for the determination of aerosols by the use of membrane ultrafilters. I. Filtration studies on the gravimetric determination. K. Spurny and V. Vondráček (Lab. Hyg. and Epidemiol. Sts., Prague). *Coll. Czech. Chem. Commun.*, 1957, 22 (1), 22-39 (in German).--Diagrams and a description of the apparatus are given. The dependence of the resistance to air flow on the porosity and the mass of trapped aerosol were measured. The efficiency of ultrafiltration was measured by using three filters in series, the first having a porosity of 0.2 to 1.5  $\mu$ , the others a porosity of 0.2  $\mu$ . With membrane ultrafilters of the series A 024, B 031 and K 044, the two first filters held 100% of a radioactive aerosol; filters of the series K 050 (porosity 0.3 to 0.8  $\mu$ ) also gave an efficiency of practically 100%. Fractional filtration was carried out through four filters in series, and tested by using a radioactive aerosol. For gravimetric determinations, the filter is weighed before and after the passage of a known vol. of air, after drying for 48 hr. over 98%  $H_2SO_4$ . Treatment of the used filter with 2-methoxyethanol renders it transparent, enabling a dispersion count of the aerosol to be obtained. For fractional filtrations, filters of different porosity or of different materials may be used. The method is suitable for aerosol concn. of 0.05 to 500 mg per cu. m. (This paper was published in Czech in *Chem. Listy*, 1956, 50, 1399.) C. D. KOPKIN

SPURNY, Kvetoslav; POLYDOROVA, Marie

Filtering properties of certain fibrous materials in the analysis  
for the determination of solid aerosols. Pracovni lek. 10 no.1:  
17-25 Mar 58.

1. Ustav fysikalni chemie CSAV, Praha.  
(AEROSOLS, determination,  
fibrous filtration material (Cz))