CZ/8-52(92)-10-17/39

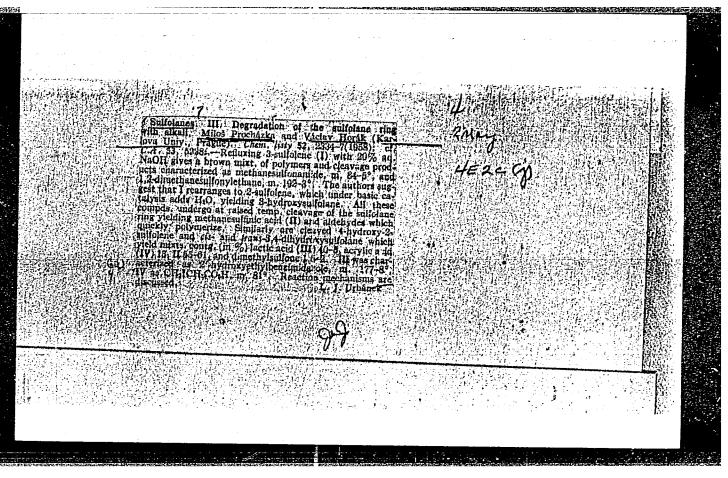
Sulphclanes II. Hydroxy Derivatives of Sulpholanes

rates of reaction of the epoxide IV and the bromohydrine VIII with liquid ammonia at -33°C is given. The hydroxy-sulpholane VI was also prepared in high yields by the reaction of the chlorohydrine V with liquid ammonia. Details of the preparation of the various compounds, their percentage composition, melting points and yields are quoted. There is 1 Figure and there are 10 references: 3 German, 2 Belgian, 3 Czech, and 2 English.

ASSOCIATION: Katedra organické chemie, Matematicko-fysikální fakulta, Karlova universita, Praha (Chair of Organic Chemistry, Department for Mathematics and Physics, Charles University, Prague)

Card 3/3

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COUNTRY: Combination of a graduate of a grad

n it with samme lated

Transannuled five-membered rings. Chem listy 57 no.6:629-635 Je '63.

1. Katedra organicke chemie, Prirodovedecka fakulta, Karlova universita, Praha.

CZECHOSLOVAKIA

HELCL, J.; PROCHAZKA, M.; Gynecological Department and OXS Abbreviation not explained Okresni Institute of National Health (Gynekologicko-porodnicke Oddeleni a OXS OUNZ), Rakovnik, Director (Reditel) Dr J. PECHA.

"Epinephrine in the Treatment of Lumbalgias and Sacralgias."

Prague, Casopis Lekaru Ceskych, Vol 105, No 31, 9 Aug 66, p 845

Abstract: Treatment of 73 women and 78 men showed that epinephrine is a suitable drug for the treatment of muscular fibrositis, mainly lumbalgia and sacralgia; subcutaneous pain, affliction of body parts outside of joints, and perineural afflictions are affected only to a very limited extent. No references.

1/1

PROCHAZKA, Mileslav, inz.

Experience resulting from comparing prestressed concrete tanks at various types. Inz stavby 9 no.11:416-419 N '61.

1. Vejenske stavby, Praha.

PROGUAZKA, MiLoslav

A new method for lifting derailed heavy equi ment. p. 231

ZELTZNICAR (Ministeratvo dopravy) Vol. 6, Mo. 7, Sept. 1756

Praha, Gzechoslovakia

COURCE: Fast European List (EEM) Library of Congress, Vol. 6, No. 1, January 1957

PROCHAZKA, M.

TECHNOLOGY

Periodical: ZELEZNICAR. No. 12, Dec. 1958. PROCHAZKA, M. Safety on railroads. p. 270.

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

PROCHAZKA, M.

"Derailment of passenger and freight trains." p. 1/19.

ZELEZNICAR. (Ministerstvo dopravy). Praha, Czechoslovakia, No. 6, June 1959.

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

PROCHAZKA, Miloslav

Problems of safety of railroad transportation. Doprava no.11: 370-371 '62.

1. Ministerstvo dopravy a spoju.

PROCHAZKA, Miloslav

Causes of accidents. Zel dop tech 10 no.11:323-324 '62.

ZIMMERMANNOVA, H.; PROCHAZKA, M.

Isomerization of double bonds and addition of alcohol to unsaturated sulfones. Coll (z Chem 30 no.1:286-295 Ja '65.

1. Institut fur organische Chemie, Karlsuniversitat, Prague. Submitted August 24, 1962.

PROCHAZKA, Miloslav, inz.

Earthwork in winter constructions. Inz stavby 11 no.11: 401-406 N*63.

1. Vojenske stavby, n.p., Praha.

z/0039/64/025/006/0313/0319

ACCESSION NR: AP4039418

AUTHOR: Prochazka, Miroslav (Engineer, Candidate of sciences)

TITLE: Electromagnetic light waves in communications engineering

SOURCE: Slaboproudy obzor, v. 25, no. 6, 1964, 313-319

TOPIC TAGS: electromagnetic light wave, message transmission. long distance message transmission, laser, gas laser, solid state laser

ABSTRACT: The article discusses the basic problems associated with the use of light waves for the long-distance transmission of information. The questions of generating, modulating, and detecting light signals are pointed out. The authors points out that continuous-duty generators are best suited for this type of communications. Gas and solid state lasers belong to this category. Inasmuch as alternating currents with a frequency of light cannot be generated, the radio signal carrier frequency can be effected by a modulation current signal. The chief problem in the modulation of electromagnetic light waves, which would permit the use of high frequency carrier waves, is the wide bandwidth of the modulation. The

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ACCESSION NR: AP4039418

frequency of an electromagnetic wave in the red part of the spectrum is given as approximately 4 x 10¹⁴ cycles, i.e. 400 teracycles, which means that a 1% modulation band represents a bandwidth of 4 x 10⁶ mc, which is sufficient for the simultaneous transmission of one billion telephonic messages. Modulation methods based on subcarrier frequency have a much better chance of success. Many experiments with modulation of light waves by subcarrier frequencies have already been carried out, and a modulation of 10 gigacycles has been attained. A light ray was modulated by a 2.8-gigacycle subcarrier with a modulation band of 5 mc and with a modulation index of 200 watts. The effect of atmospheric and meteorological conditions upon light-wave transmission is discussed. The application of light guides or optical pipelines for light wave transmission of information is mentioned. Examples of a bunched and hollow light guide are given. A critical estimate of employing light waves for message transmission in the foreseeable future is presented. Orig. art. has: 8 figures, 1 table, and 6 equations.

ASSOCIATION: Vyzkumny ustav pro sdelovaci techniku A. S. Popova, Prague (Research Institute for Communications Engineering)

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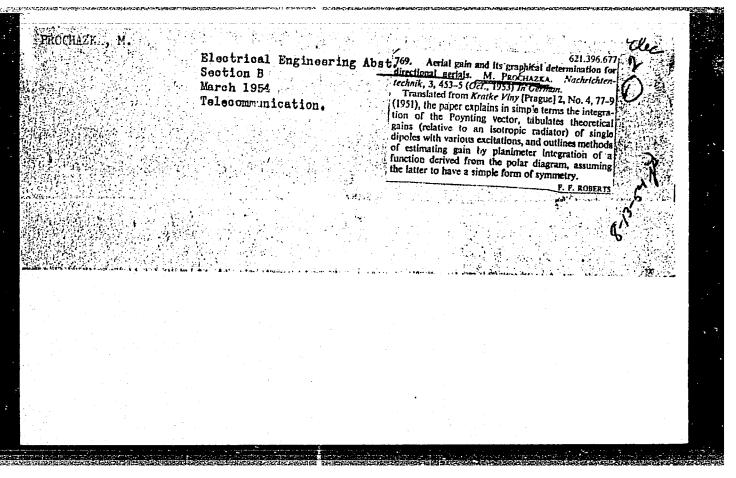
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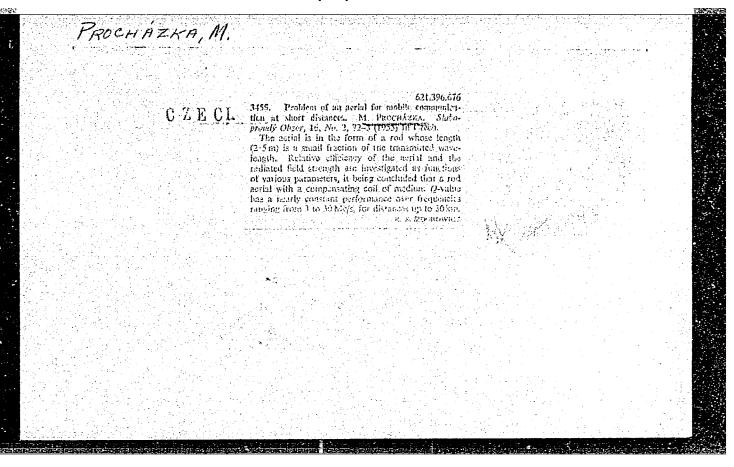
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Caha, Vladimír, Engineer, and Procházka, Miroslav, Engineer

Anteny (Antennas) Prague, SNTL, 1956. 462 p. 3,500 copies printed.

Reviewers: Stransky, Josef, Dr., Engineer, Corresponding Member of the Czechoslovak Academy of Sciences, and Bena, Josef, Dr., Engineer; Ed.: Major, Rudolf; Tech. Ed.: Appl, Jiří;

PURPOSE: This book is a textbook for institutions of higher learning. It may be used also by technicians in research establishments and in factories of the electrical equipment industry.

COVERAGE: The monograph deals with the theoretical principles of transmitting and receiving antennas and of antenna systems, and discusses several antenna types and constructions from the point of view of practical design, calculation and measurement. The book is based on information acquired in the course of several years experience in the theory and practice of antenna design. For technical reasons it proved necessary to omit any treatment of the following subjects:

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Antennas

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the fundamental relations of the electromagnetic field and the propagation of an electromagnetic field along a conductor; descriptions of certain types of antennas rarely encountered in practice (for example, polygonal antennas); grounding systems for a symmetrical antennas. In the chapter on impedance relations in antenna conductors, the authors limited themselves to a simple enumeration of current methods of calculation. In composing the book, the authors have tried to include the richest material accessible in the domestic (Czech) and foreign literature on the subject since in Czechoslovakia there has not been enough experience in microwave work. As far as standard symbols are concerned, the designation of time and space vector magnitudes caused typographical difficulties. The time vectors and complex numbers, therefore, are indicated in normal italics. The space vectors are given in half-thick italics. The technical terminology follows the provisional plan for terminology standards worked out by the Ministry of Machine Building. In several cases, where it was found that a given term was already in wide use, this is not so. The author thanks the electrical engineering editorial staff of SNTL for their help in preparing the book for publication. No personalities are mentioned. There are 159 references of which 13 are Czech, 10 Soviet, 19 German, 1 Swedish, 6 French, and 109 English, including 1 translation. In addition, another Soviet source is cited in the preface.

Card 2/12

PROCHAZKA, M.

PROCHAZKA, M. Miniature direction kv. antennas. p. 5

Vol 4, no. 1, Jan. 1956 SDELOVACI TECHNIKA TECHNOLOGY Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

PROCHAZKA, M.

"What a builder of radio receivers should know about antennas."

p. 93 (Sdelovaci Technika, Vol. 6, No. 3, March 1958, Praha, Czechoslovakia)

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

PROCHAZKA, M.

"Facts about cubical antennas." P. 127.

SEDLOVACI TECHNIKA, (Ministerstvo strojirenstvi). Praha, Czechoslovakia, Vol. 7, No. 4, Apr. 1959.

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

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> ц1798 S/194/62/000/008/086/100 D413/D308

9.1111 AUTHOR:

Procházka, Miroslav

TITLE:

An indirectly illuminated aerial system

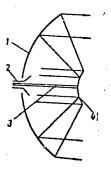
PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1962, abstract 8-7-120 a (Czech. pat., cl. 21a4 46/02, no. 98119, Jan. 15, 1961)

TEXT: A simple solution is proposed to the problems of separating the differently polarized waves of the transmitted and received signals in the aerials of radio relay stations. The known solutions are described. A description is given of the system to be patented, which does away with their disadvantages. This system contains no waveguide bends, and its features are adequate broadbandedness, waveguide of a feed from behind the reflector. The primary reflecting use of a feed from behind the reflector. The primary reflecting surface 4 of the system (see Figure) is formed of an auxiliary parasurface 4 of the system (see Figure) is formed of an auxiliary parasurface 4 of the system (see Figure) is formed of an auxiliary parasurface 4 of the system (see Figure) is formed of an auxiliary parasurface 4 of the system (see Figure) is formed of an auxiliary parasurface 4 of the system (see Figure) is formed of an auxiliary parasurface 4 of the system (see Figure) is formed of an auxiliary parasurface 4 of the system (see Figure) is formed of an auxiliary parasurface 4 of the system (see Figure) is formed of an auxiliary parasurface 4 of the system (see Figure) is formed of an auxiliary parasurface 4 of the system (see Figure) is formed of an auxiliary parasurface 4 of the system (see Figure) is formed of an auxiliary parasurface 4 of the system (see Figure) is formed of an auxiliary parasurface 4 of the system (see Figure) is formed of an auxiliary parasurface 4 of the system (see Figure) is formed of an auxiliary parasurface 4 of the system contains no statement and system

An indirectly illuminated aerial system S/194/62/000/008/086/100 D413/D308 tion.

Fig.



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9,1700

AUTHOR: Prochazka, Miroslav, Engineer, Candidate of Sciences

TITLE:

Miniaturization of antennas

PERIODICAL:

Slaboproudy obzor, v. 22, no. 11, 1961, 675-682

TEXT: The Výzkumný ústav sdělovací techniky A.S. Popova v Praze

(Communication-Engineering Research Institute A.S. Popov in Prague) studies methods for reducing the dimensions of antennas for the VIIF and SHF band. This article surveys possibilities of miniaturizing antennas and antenna arrays and critically evaluates application possibilities. There are three methods for reducing antenna dimensions: (1) To select and apply a suitable inductivity and/or capacity that changes the current and voltage distribution along a linear antenna in a way which necessitates a shorter conductor for the required electrical effect; (2) To surround dipole or loop antennas with a magnetodielectric medium; and (3) To find such array arrangements or feeding systems which have a

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28898 Z/039/61/022/011/005/006 p291/D304

Miniaturization ...

maximum directivity factor in a given space. For evaluating miniaturized antennas, the following parameters are tested: (a) broad-band capacity; (b) impedance properties; (c) directivity factor; and (d) antenna efficiency. The results obtained in antenna-miniaturization tests can be summarized as follows: (1) Capacitive shortening is most advantageous, especially for large reduction of antenna dimensions (10 -30%), since the real component of the input impedance is increased which, in turn, results in increased antenna efficiency and improved broad-band properties. In cases where the dimensions of the capacitive load are a hindrance, a combination of capacitive and inductive (L-C) shortening should be used. The inductivity should be applied at the current maximum rather than at the ends of antenna conductors. The highest antenna efficiency (i.e. gain factor nearly equal to the directivity factor) is achieved with capacitive shortening or an L-C combination with prevailing capacitive shortening. In the practical design of such a shortened antenna, impedance matching must be solved by suitable transformation and compensation. An antenna, reduced to 35%, has a very good gain and

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28398 2/039/61/022/011/005/006 p291/p304

Miniaturization ...

can be used for TV reception. (2) Since electromagnetic waves are shorter in a magnetodielectric medium than in free space, also resonance and anti-resonance occurs at shorter distances when electrical dipoles are placed in a magnetodielectric material (sphere). The Q factor of the shortened antenna is considerably increased and the real components of the input impedance are considerably lowered. Both the efficiency and gain factor depend on the magnitude of dielectric losses and can be calculated with the aid of electronic computers. However, it must be considered that the otherwise regular dipolar radiation pattern is severely dissipated in certain critical cases. Antenna miniaturization with the aid of dielectrics is only seldom used, with the exception of few applications in the field of centimetric waves (dielectric rod antennas). (3) Several efforts were made to reduce the size of antenna arrays by appropriate spacial arrangement. It was found that the miniaturization is always accompanied by a large increase of the Q factor (very small bandwidth) which results in so-called supergain antennas which are, so far, very difficult to realize. In conclusion the author states that antenna miniaturization is always a great problem

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Miniaturization ...

since it is always accompanied by a certain reduction of the bandwidth. Some progress can be achieved when linear antennas or dipoles are shortened by applying a capacitance (or L-C combination) or the principle of reducing the speed of wave-propagation in a magnetodiclectric medium. Another, indirect method to reduce antenna dimensions is the utilization of semi-conductors (e.g. tunnel diodes) installed directly into receiver antennas. There are 10 figures, 2 tables, and 6 references: 4 Soviet-bloc and 2 non-Soviet-bloc. The references to the 2 English-language publications read as follows: Ch. Polk: Resonance and Supergain Effects in Small Ferromagnetically or Dielectrically Loaded Biconnical Antennas. IRE Transaction on Antennas and Propagation, v. AP-7, 12, 1959 Special Suppl; R.F. Harington: Effect of Antenna Size on Gain, Bandwidth and Efficiency, Journal of Research (Nat. Bur. Stand) v. 64D, no. 1.

ASSOCIATION:

Výzkumný ústav pro sdělovací techniku A.S. Popova, Praha (Communication-Engineering Research Institute A.S. Popov

in Prague)

in Prague)
SUBMITTED: June 20, 1961

Card 4/4

PROCHAZKA, Miroslav, inz., C.Sc.

Conditions of television reception with an indoor antenna. Sdel tech 10 no.8:288-289 Ag '62.

CZECHOSLOVAKIA

PROCHAZKA, M; CERNY, J.V, SMISEK, M

1. Institute of Organic Chemistry, Karlova University, Prague - (for ?): 2. Institute of Physical Chemistry, Czechoslovak Academy of Sciences, Prague - (for ?)

Prague, Collection of Czechoslovak Chemical Communications, No 3, March 1966, pp 1315-1322

"Oxabicyclo(3,3,0)octanes."

BEHUNCIK, Jozef, Inz.; BALOUN, Jaroslav; PROCHAZKA, Miroslav

Some experiences of the Hutne stavby National Enterprise, Kosice. Pozemni stavby 13 no.4:132-134 '65.

1. Hutne stavby National Enterprise, Kosice (for Behuncik and Baloun). 2. Ministry of the Building Industry, Prague (for Prochazka).

Microbiology

CZECHOSLOVAKIA

CZ/0064/66/011/005/0337/0346

AUTHOR: Prochazka, 0.

ORG: Military Institute of Hygiene, Epidemiology and Microbiology,

TITLE: Preparation of conjugates of 19S and 7S globulins of antitularemic sera for use in determining the specific fluorescence of Pasteurella tularensis

SOURCE: Folia microbiologica, v. 11, no. 5, 1966, 337-346

TOPIC TAGS: tularemia, bacterial disease, bacterial antigen, rabbit,

ABSTRACT: Conjugates of 19S and 7S globulins from antitularemic sera with fluorescein isothiocyanate were used to detect Pasteurella tular-crisis. Serum was obtained from rabbits 7—10 days after immunization. Experimental results showed that the 19S globulin fraction had a weak immunofluorescence reaction with pure cultures of Pasteurella tular-fraction (with a low agglutinin content) produced more intense fluorescence. It was concluded that agglutinating antibodies may not be the 1/2

striking differences between various virulent strains of Pasteurella tularensis. Orig. art. has: 2 figures and 4 tables. [W.A. 50]

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ACC NR: AP6032917

SOURCE CODE: CZ/0064/66/011/005/0337/0346

AUTHOR: Prochazka, O.

ORG: Military Institute of Hygiene, Epidemiology and Microbiology,

TITLE: Preparation of conjugates of 19S and 7S globulins of antitularemic sera for use in determining the specific fluorescence of Pasteurella tularensis

SOURCE: Folia microbiologica, v. 11, no. 5, 1966, 337-346

TOPIC TAGS: tularemia, bacterial disease, bacterial antigen, rabbit, SEROLOGY, FLUORESCENCE
ABSTRACT: Conjugates of 19S and 7S globulins from antitularemic sera with fluorescein isothiocyanate were used to detect to the contract of the co

with fluorescein isothiocyanate were used to detect Pasteurella tularensis. Serum was obtained from rabbits 7—10 days after immunization. Experimental results showed that the 19S globulin fraction had a weak immunofluorescence reaction with pure cultures of Pasteurella tularensis, although it contained the most agglutinating antibodies. The 7S cence. It was concluded that agglutinating antibodies may not be the carriers of fluorescence. The immunofluorescence reaction did not show

Card 1/2

[W.A. 50] H REF: 014/

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BENDA, R.; MYSKA, V.; PROCHAZKA, O.; CERVA, L.; HRONOVSKY, V.; DUBANSKA, H.

Experiences with the fluorescence antibody method in the diagnosis of human herpetic keratoconjunctivitis. Cesk. epidem. 14 no.5: 257-265 S '65.

1. Vojensky ustav hygieny, epidemiologie a mikrobiologie, Praha a II. ocni klinika fakulty vseobecneho lekarstvi Karlovy University, Praha.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343110014-3"

E 31017-66 SOURCE CODE: C2/0060/65/000/006/0268/0273 ACC NR: AP6023125 AUTHOR: Prochazka, Otakar (Lieutenant colonel; Engineer; Candidate of sciences) ORG: Military Institute of Hygiene, Epidemiology, and Microbiology, Prague (Vojensky ustav hygieny, epidemiologie a mikrobiologie) TITIE: Fluorescence of staphylococci and some methods of their suppression SOURCE: Vojenske zdravotnicke listy, no. 6, 1965, 268-273 TOPIC TAGS: bacteriology, fluorescence, bacteria, bacterial antigen, formaldehyde, diagnostic medicine ABSTRACT: The fluorescence of staphylococci (and of other bacteria) may interfere with the immunofluorescence method for the diagnosis of infections caused by bacterial antigens. Misleading positive results may be found. Some methods for the suppression of fluorescence of staphylococci in the system Staphylococcus pyogenes -Pasteurella tularensis are described. Formolization of the preparation using a minimum 5% concentration of formaldehyde and a 3 hour residence time removes the fluorescence. Papain gives good results only in pure cultures. Trypsin acts well but cannot be used because it suppresses also the fluorescence of the homologue antigen. Orig. art. has: 7 tables. [JPRS] SUB CODE: 06 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 013

PROCHAZKA, Otakar, podplukovnik inz., CSc.

Staphylococcal fluorescence and some methods for its supression.
Voj. zdrav. listy 34 no.6:268-273 D '65.

1. Vojensky ustav hygieny, epidemiologie a mikrobiologie v Praze.

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CZ/0064/65/010/002/0077/0084

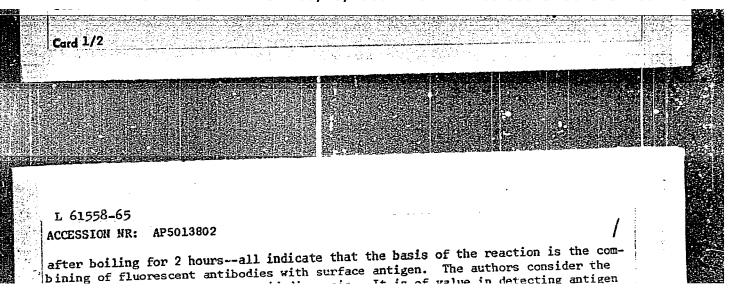
AUTHOR: Franck, J. (Franck, Yu.); Prochazka, O. (Prokhazka, O.)

TITLE: Detection of Pasteurella tularensis by means of fluorescent antibodies

SOURCE: Folia microbiologica, v. 10, no. 2, 1965, 77-84

TOPIC TAGS: Pasteurella tularensis, fluorescent antibody, antigen, serum, tularemia, diagnosis

ABSTRACT: The authors investigated various factors involved in using the immuno-fluorescence method to detect *Pasteurella tularensis* and studied the sensitivity, specificity, and reliability of the reaction under experimental conditions. Various virulent and avirulent strains of the microorganism were used to immunize fowl,



REHACEK, K.; PROCHAZKA, O.

Activity of the section dealing with the morphology of polymers. Chem listy 58 no.9:1133 S 164.

1. Research Institute of Coating Materials, Prague.

PROCHAZKA, O.

Stimulation of antibody formation by bacterial lipopolysaccharide. The influence of repeated doses of lipopolysaccharide on antibody formation. Folia microbiol 6 no.3:157-163 '61. (EEAI 10:8)

1. Department of Microbiology, Institute of Biology, Czechoslovak Academy of Sciences, Prague 6. (ANTIGENS AND ANTIBODIES) (BACTERIA)

PROCHAZKA, Oldrich, inz.

Tall oil resin, a suitable raw material for production of wrapp ng paper size. Papir a celulosa 20 no.2:46-49 F 165.

1. Researc. Center 'the Severoceske paginny, Stesti.

PROCHAZKA, P.; HAHN, P.; KOLDOVSKY, O.; NOHYNEK, M.; ROKOS, J.

The activity of of emplace in homogenates of the pancreas of rats during early postmatal development. Physiol. Bohemoslow. 13 no.3:288-291 2c4

1. Institute of Microbiology and Institute of Physiology, Czechoslowak Academy of Sciences, Prague.

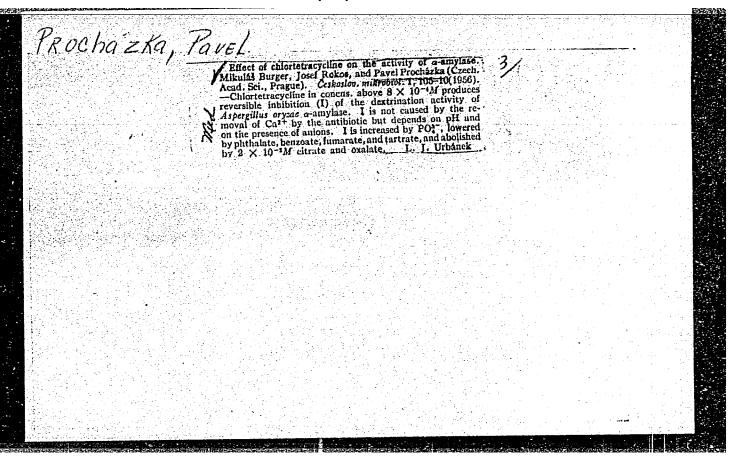
ROKOS, J.; RICICA, J.; PROCHAZKA, P.

Investigations on production of chlortetracycline by Actinomyces aureofaciens I. Fol.biol., Praha 1 no.4:214-219 30 Aug 55.

1. Biologicheskiy institut ChSAN, mikrobiologiya, Praga (CHLORTETRACYCLINE, preparation of, technic)

ROKOS, Josef; RICICA, Jan; PROCHAZKA, Pavel

Investigations on production of chlortetracycline by Actinomyces aureofaciens. Cesk. biol. 4 no.6:333-337 June 55.



PROCHAZKA, P.; ROKOS, J.; BURGER, M.
"Effect of chlortetracycline on the pancreatic lipase"
Ceskoslovenska Mikrobiologie. Praha, Czechoslovakia. Vol. 3, no. 4, 1958

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 7, July 59, Unclas

MALEK, P.; ROKOS, J.; BURGER, M.; KOLC, J.; KRATKOVA, E.; PROCHAZKA, P. Effect of chlortetracycline on exzymes & its practical significance. Cas. lek. cesk. 98 no.9:262-266 27 Feb 59. 1. Ustav klinicke a experimentalni chirurgie v Praze, reditel doc. dr. B. Spacek. Biologicky ustav CSAV v Praze, reditel akademik I. Malek. Detska interna Thomayerovy nemocnice v Praze, prednosta prim. dr. E. Kratkova. P. M., Praha-Krc, Budejovicka 800. (CHLORTETRACYCLINE, eff. on pancreatic alpha amylase & lipase, eff. of citric acid (AMYLASES pancreatic alpha amylase, inhib. by chlortetracycline (Cz)) (LIPASES inhib, by chlortetracycline, eff. of citric acid (Cz)) (PANCHEAS, metab. alpha amylase & lipase, inhib. eff. of chlortetracycline. reversal by citric acid (Cz)) (CITRATES, eff. citric acid on inhib. of pancreatic alpha amylase & lipase

by chlortetracycli (Cz))

KUBAT, Z.; ROKOS, J.; PROCHAZKA, P.; LIEBL, V.

Interaction of corneal polysaccharides with basic macromolecules. Cas. lek. cesk. 103 no.33:909-913 14 Ag '64.

1. I ocni klinika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta prof. dr. E. Dienstbier, DrSc.) a Mikrobiologicky ustav Ceskoslovenske akademie ved v Praze (reditel akademik I. Malek).

PROCHAZKA, P.; ROKOS, J.; ZASTAVA, V.; KOLC, J.

Localization and uptake of chlortetracycline in the pancreas. Cas. lek. cesk. 104 no.27/28:743-744 9 Jl 165.

1. Mikrobiologicky ustav Ceskoslovenske akademie ved v Praze (reditel akademik I. Malek) a Ustav klinicke a experimentalni chirurgie v Praze (reditel prof. dr. B. Spacek, DrSc.).

KUBAT, Z.; ROKOS, J.; PROCHAZKA, P.; LIEBL, V.; NOHYNEK, M.

A contribution to the problem of electrostatic bonds of the macromolecules of the corneal stroma. Sborn. lek. 67 no.6: 196-198 Je'65.

1. I. ocni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. E. Deinstbier, DrSc.); a Mikrobiologicky ustav Ceskoslovenskej akademie vied v Praze (reditel: akademik: 1. Malek).

ROKOS, J.; HAHN, P.; KOLDOVSKY, O.; PROCHAZKA, P. The postnatal development of lipolytic activity in the pancreas and small intestine of the rat. Physiol. behamoslov. 12 no.3:213-219 163. 1. Institute of Microbiology and Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

(PANCREAS) (INTESTINE, SMALL)

(LIPID METABOLISM) (CORTISONE) (LIPID METABOLISM) (ANIMALS, NEWBORN) (NITK)

MALEK, P.; ROKOS, J.; KOJECKY, Z.; KOLC, J.; PROCHAZKA, P.; ZAK, F.

The special role of tetracycline antibiotics in the prevention and therapy of acute pancreatitis. Rozhl. chir. 42 no.3:174-180 Mr 163.

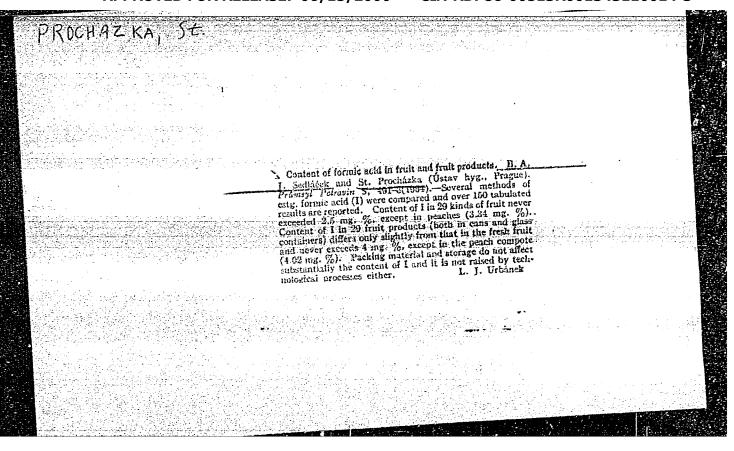
1. Ustav klinicke a experimentalni chirurgie v Praze, reditel prof. dr. B. Spacek DrSc. II vnitrni klinika lekarske fakulty PU v Olomouci Biologicky ustav CSAV v Praze, reditel akademik I. Malek. II patologickoanatomicky ustav lek. fak. KU v Praze, prednosta prof. dr. V. Jedlicka. (PANCREATITIS) (TETRACYCLINE) (LIPASE) (ENZYME INHIBUTORS) (CHLORTETRACYCLINE)

MALEK, P.; ROKOS, J.; KOJECKY, Z.; KOLC, J.; PROCHAZKA, P.; ZAK, F.

The special role of tetracycline antibiotics in the prevention and therapy of acute pancreatitis. Rozhl. chir. 42 no.3:174-180 Mr 163.

l. Ustav klinicke a experimentalni chirurgie v Praze, reditel prof. dr. B. Spacek DrSc. II vnitrni klinika lekarske fakulty PU v Olomouci Biologicky ustav CSAV v Praze, reditel akademik PU v Olomouci Biologicky ustav CSAV v Praze, reditel akademik I. Malek. II patologickoanatomicky ustav lek. fak. KU v Praze, prednosta prof. dr. V. Jedlicka. (LIPASE) (PANCREATITIS) (TETRACYCLINE) (LIPASE) (ENZYME INHIBUTORS) (CHLORTETRACYCLINE)

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CZECH/14-59-4-5/48

9(1) AUTHOR: Procházka, Miroslav, Engineer

TITLE:

Facts About the Cubical Quad Antenna

PERIODICAL:

Sdelovací Technika, 1959, Vol 7, Nr 4, pp 127-128

(Czechowlovakia)

ABSTRACT:

The "new" Cubical Quad antenna has been much discussed but there is a considerable amount of inexact information about it in circulation. In order to check some of the exaggerated claims, this type of antenna has been subjected to a series of tests in the A.S. Popov Institute. A simple construction of the test aerial was used. The type recommended in foreign literature proved to be subject to secondary influences so that the theoretical maximal potential could not be reached. The question of measuring the antenna's plus and minus deviations belongs to the most difficult ones in the whole field. For this reason, all claims about the sensational gains obtained with these "new types" must be taken with

Card 1/2

Facts About the Cubical Quad Antenna

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CZECH/14-**59**-4-5/48

reservation, all the more so when the measuring is done with simple instruments. The present article registers results of tests done under relatively favorable conditions in a well equipped scientific laboratory. Its purpose is to pacify the technical public whose great interest has been aroused by sensational information from predominantly foreign literature. There are 4 diagrams, 2 graphs, 2 tables and 4 references, 1 of which is American, 1 Czech and 2 German.

Card 2/2

H-28

PROCHAZKA, S.

CZECHOSLOVAKTA/Chemical Technology - Chemical Products and

Their Application, Part 4. - Synthetic Polymers,

Plastics.

: Ref Zhur - Khimiya, No 7, 1958, 23246 Abs Jour

: S. Prochazka Author

Gluing of Glass and Ceramics with Epoxy Resins. Inst Title

: Sklar a keramic, 1957, 7, No 3, 72 Orig Pub

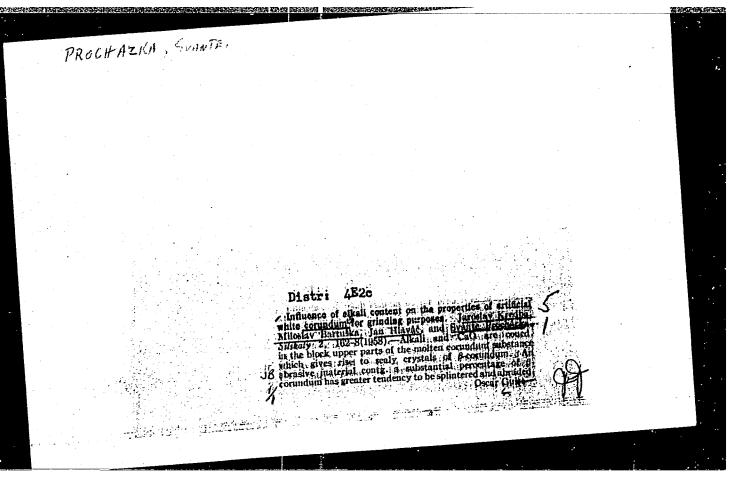
The epoxy-resins "Upon 1001" and "Epoxy 1200" are used in Abstract

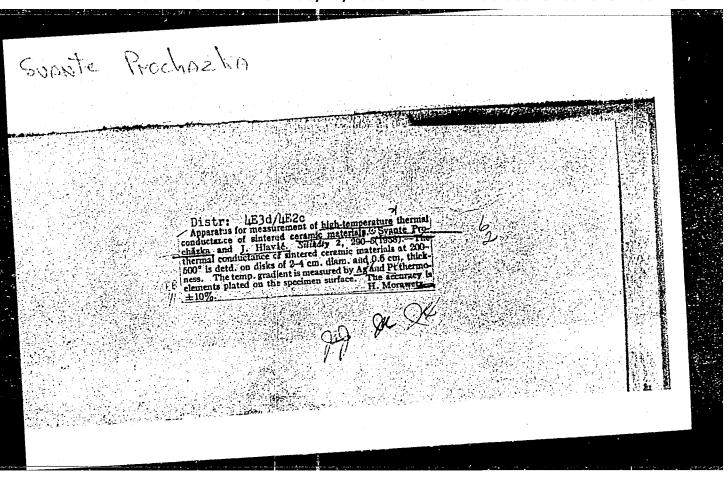
Czechoslovakia for gluing glass and ceramics, as well as glass and ceramics with metals. "Upon 1001" is solidified by heating to 200° 20 min., "Epoxy 1200" is solidified with 4% of a solidifier at about 200 in 24 hours. The tensile strength of porcelain glued together with "Epoxy 1200" is usually 200 kg per sq.cm and in some cases it is above

300 kg per sq.cm.

energy by the second respectively.

Card 1/1





1,2721

s/081/62/000/021/038/069 B171/B101

15,3200

Bárta, Rudolf, Procházka, Svante, Šebek, František

AUTHORS:

A method of producing refractory concretes

TITLE:

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 21, 1962, 347, abstract 21K367 (Czechosl. patent 99958, June 15, 1961)

TEXT: Refractory concretes, including also the light-weight concretes, obtained by addition of loosening or foaming agents, can be prepared from a mixture of crushed aggregate, such as corundum and mullite wastes, with a cementing agent. The crushed aggregate is mixed either with H3PO4, or with its solution or a solution of its salts. Alumina or Al(OH), is also added. The mass consolidates at 50-300°C. Example 1: composition of the mass: mullite (0.5-0.2 mm fraction) 40%; ditto (0.2-0.1 mm) 25%; ditto (0.1-0.06 mm) 8%; ground alumina 4%; 60%-solution of H₃PO₄ 14%. H₃PO₄ is added to the dry mixture of aggregate and alumina and the product is vibrated. After several hours, the set mass is heated to 80-100°C in a form or after its removal therefrom. Example 2. Composition of the mass: Card 1/2

S/081/62/000/021/038/069 B171/B101

A method of producing refractory ...

fused corundum (0.2-0.1 mm fraction) 43%; ditto (0.06 mm) 40%; H₃PO₄ 17%. The mixture is poured into a form and consolidated by drying at temperatures rising, from 50 to 120°C. After its removal from the form, the mass is fired at 1700°C. [Abstracter's note: Complete translation.]

Card 2/2

BARTA, Rudolf, prof., inz., doktor technickych ved; BARTUSKA, Miloslav; HLAVAC, Jan; PROCHAZKA, Svante

High-corundum materials for electric insulation and electronics. Shor chem tech no.3, part 1:425-431 159.

l. Katedra technologie silikatu, Vysoka skola chemicko-technologicka, Praha.

36535 s/081/62/000/006/061/117 B149/B108

15,2200

Barta, R., Prochazka, S. AUTHORS:

TITLE:

Highly refractory concrete with metaphosphoric acid as a

binder

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 6, 1962, 435, abstract 6K414 (Stavivo, v. 39, no. 8, 1961, 282 - 283)

TEXT: Results are given of an investigation of highly refractory concretes (RC) with metaphosphoric acid as a binder. The composition of the mass for RC is given: filler 50 - 65%, aluminum oxide hydrate 5-15%, 45% metaphosphoric acid 5 - 15%, additives 35 - 5%. As additives, substances are given which have an effect on the strength, setting and other properties of RC, e. g. kaolin, highly dispersive fractions of the filler, alumina, etc. With a corundum filler mass, the temperature of the beginning of deformation is 1750°C, the cold compressive strength after drying is 60 kg/cm², after baking at 400° C it is 160 kg/cm², after firing at 1750°C The mass is resistant to thermal shocks of cooling from 2000°C 230 kg/cm². Card 1/2

S/081/62/000/006/061/117 B149/B108

Highly refractory ...

to -30°C. This property is related with the dispersivity of the filler. The properties of a mass in which mullite was used as filler are also given. [Abstracter's note: Complete translation.]

Card 2/2

CIA-RDP86-00513R001343110014-3" APPROVED FOR RELEASE: 06/15/2000

28117 z/013/61/000/002/004/006 D006/D102

1.1600 also 3108,3308

Prochazka, Svante, Engineer, Candidate of Technical Sciences

Some considerations on the technology and economy of ultra-AUTHOR:

TITLE: fine grinding

Sklar a keramik, no. 2, 1961, 61-64

TEXT: The development of new ceramic materials calls for much finer particles than are required in conventional fine ceramics. Ultra-fine grinding (average perticle size about 1 micron) for instance, made possible the development of Kitaygorodskiy's Microlite CM 322. The article evaluates four mill types, namely the ball, vibrating, colloid, and fluid-energy mills (micronizers), as to their fitness for ultra-fine grinding. (1) In the majority of cases, dry ultra-fine grinding in ball mills is not practicable because most materials after reaching a certain degree of fineness tend to adhere to the drum walls. Wet grinding produces better results especially when smaller balls are used. According to Soviet experiences, replacement of the balls by rollers can increase the mill output up to 30%. (2) Vibrating mills are more economical than ball mills, but the current models have Card 1/3

28117 z/013/61/000/002/004/006 D006/D102

Some considerations ...

a maximum capacity of only 200 liters, requiring frequent recharging. Also, according to Soviet information, vibration grinding is accompanied by a considerable abrasion of the mill material (1.1% of iron was found in a fused-carborundum charge after 120 min) and the mills require considerable maintenance and repair due to the fatigue of the spring material. In the USSR vibration grinding was applied to the production of high-frequency ceramics. Here the main advantage is that the mixture can be prepared in a dry state. Economically, vibration grinding is advantageous for preparation of smaller material quantities. However, there are still great unused reserves in the current types of vibrating mills, which, if fully utilized by proper improvements, could raise their specific output. (3) Due to their energy consumption, almost double that of ball mills, and other unfavorable factors, colloid mills should be used only in cases in which ball mills cannot be used at all or only with difficulty. Most promising is the use of colloid mills for casting-slip preparation. (4) The Czechoslovak ceramic industry does not yet use the fluid-energy mills. Tests with a Berc laboratory-size fluid-energy mill produced promising results. It was found that this mill type could reduce considerably capital and operating costs as well as floor space. The main obstacle to the in-

Card 2/3

28117 z/013/61/000/002/004/006 D006/D102

Some considerations...

troduction of fluid-energy mills in the Czechoslovak ceramic industry is the lack of up-to-date equipment for continuous and economical production of press masses from ultra-fine mixtures. (5) Research is currently being conducted in the USSR and at the Výzkumný ustav mechanizace a automatizace (Research Institute of Mechanization and Automation) in Nové Mesto nad Vahom on electrohydraulic disintegration by high-voltage discharges in liquids. Although the potentialities of this principle cannot yet be judged, it seems that this method might be suitable for grinding of very hard materials. There are 5 figures and 1 table.

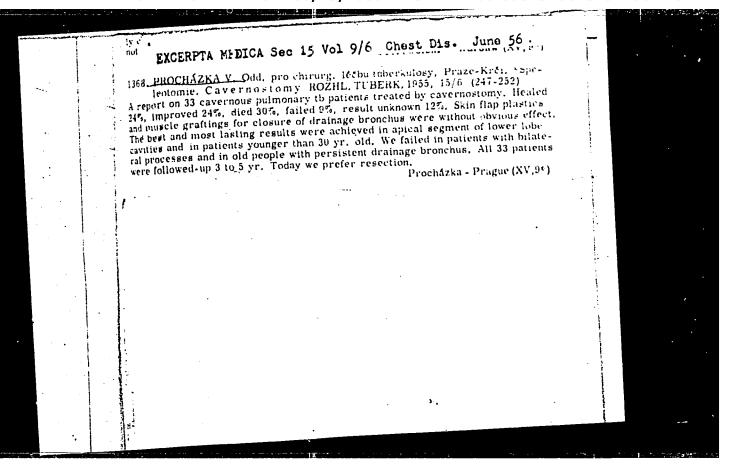
ASSOCIATION: Výzkumné pracoviště národního podniku Jiskra Tabor (Research Laboratory, Jiskra, National Enterprise, Tabor)

Card 3/3

PROCHAZKA, Vaclav, inz.; MISKOVIC, Vladimir, inz.

Examination of the sintering kinetics of the Cu-Pb system on models. Shor VST Kosice 2:65-80 '62.

1. Ceskoslovenska akademie ved, Laboratorium hutnickej technologie Slovenskej akademie vied, Kosice.



HRBEK, A., Dr.; PROCHAZKA, V., Dr.

Seizures in children. Cesk. pediat. 11 no.11:811-813 Nov 56.

1. II. detska klinika fakulty detskeho lekarstvi v Praze,
prednosta prof. Dr. J. Houstek Detske oddeleni OUNZ v Kutne
Hore, primar Dr. v. Prochazka.

(EPILEPSY, in inf. & child
incidence of seizures & unconsciousness, statist. (Cz))

CIA-RDP86-00513R001343110014-3 "APPROVED FOR RELEASE: 06/15/2000

PROCHAZKA, V.

Kosice conference on the quality of agricultural machinery, implements, and spare parts. p. 147. ((Mechanisace Zemedelstvi, Vol. 7, No. 7, Apr. 1957. Praha, Czechoslovakia)

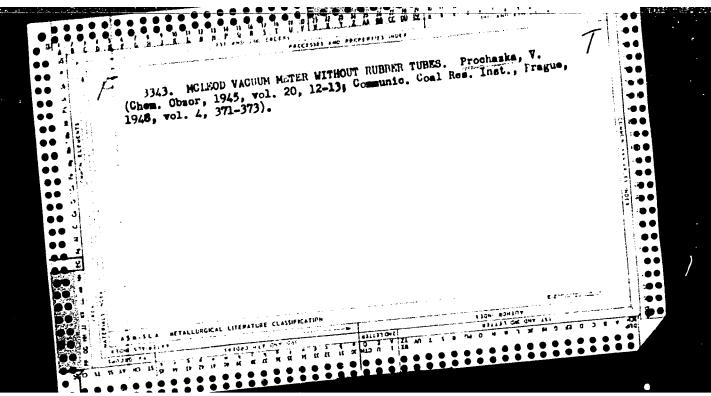
SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

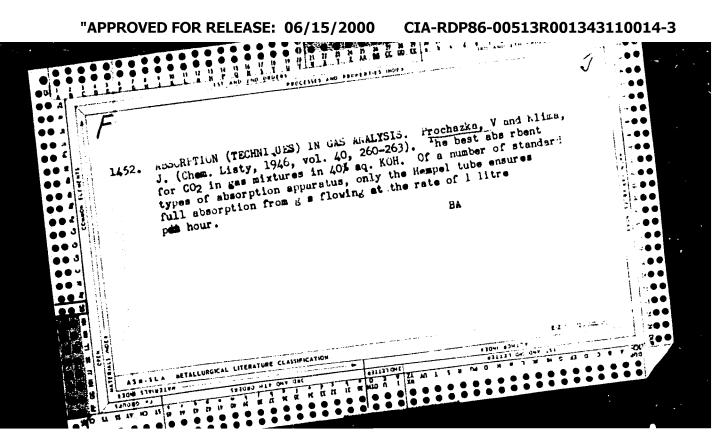
PROCHAZKA, V.

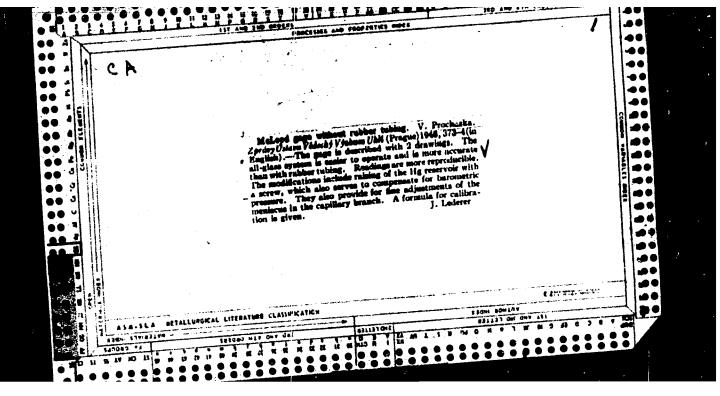
"Building non-flying maquettes."

p. 244 (Letecky Modelar) Vol. 8, no. 12, Dec. 1957 Prague, Czechoslovakia

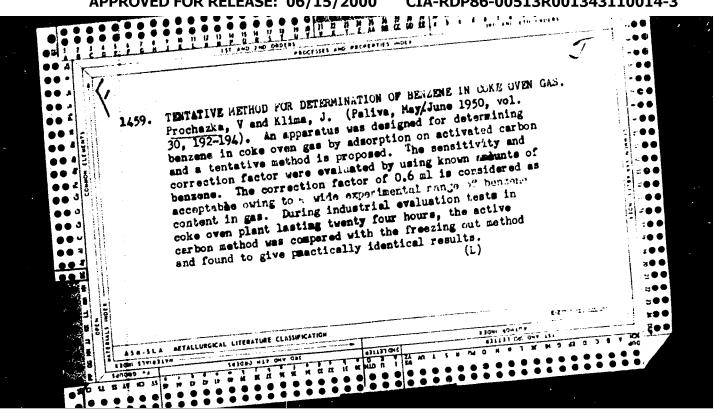
SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

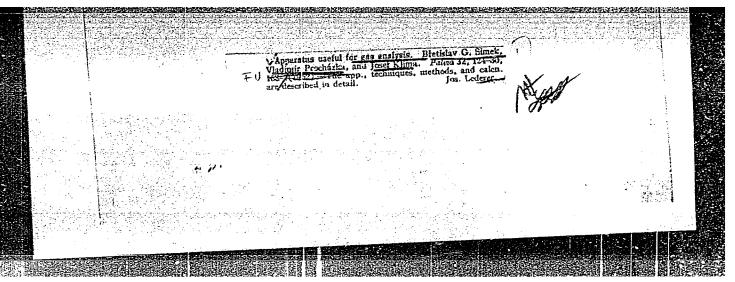






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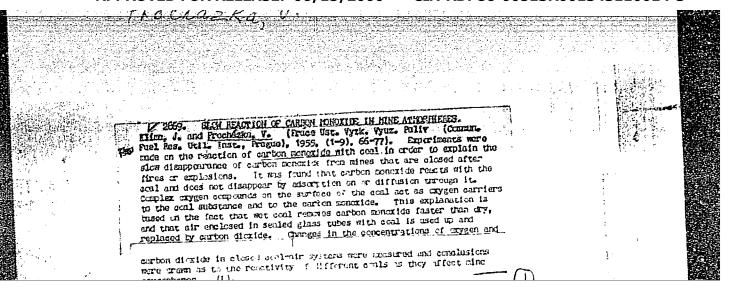


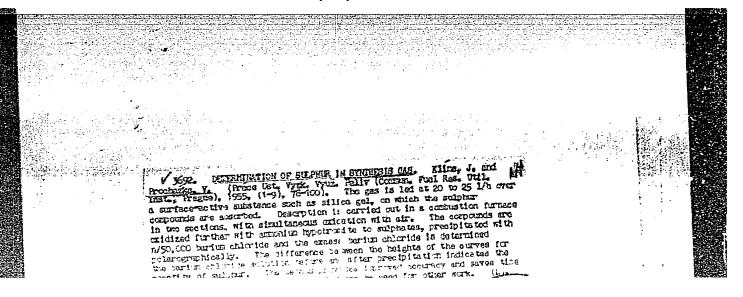
FIGURALIA, V.	
"Comments in C. Vogel's Article 'Assamle on Gas Analysis Sy The Coult App in Co.!" p. 236. (Paliv. Vo. 25, ko. 11, hov. 1-52, Fredm.)	
Vol. 3, No. 3. SC: <u>Monthly List of East European Accessions</u> , Library of Congress, <u>March</u> 1954, Uncl.	
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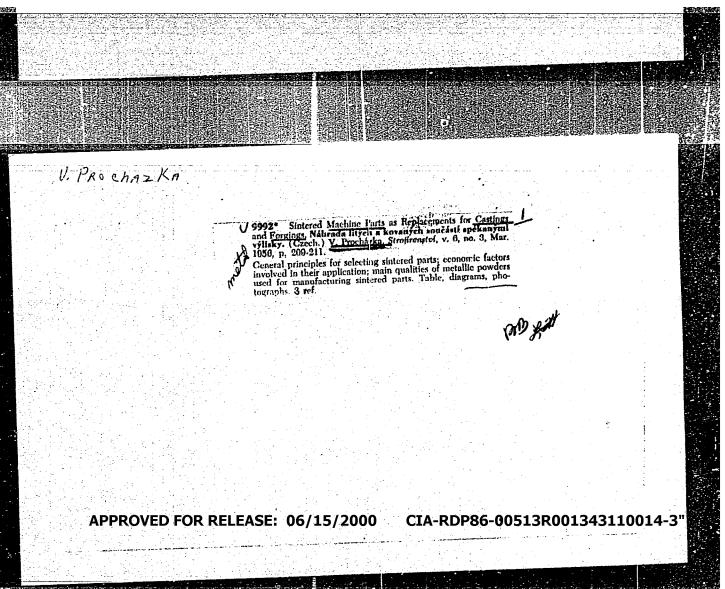
PROCHAZKA, V.; CEKAN, Z.; BATES, R. B.

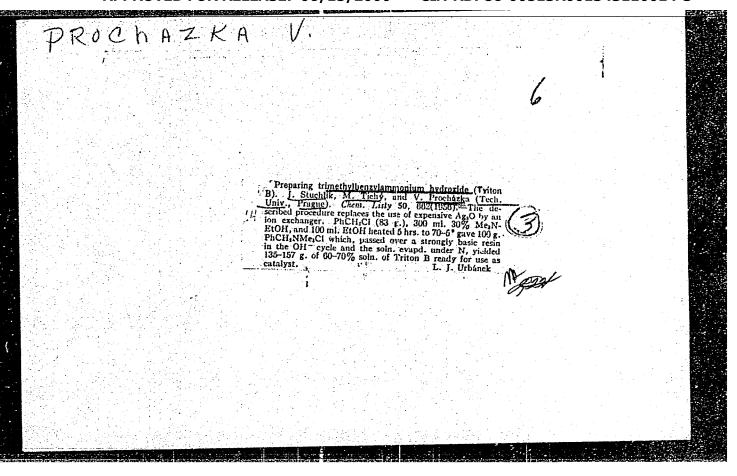
On terpenes. Pt. 151. Coll Cz Chem 28 no. 5: 1202-1210 My '63.

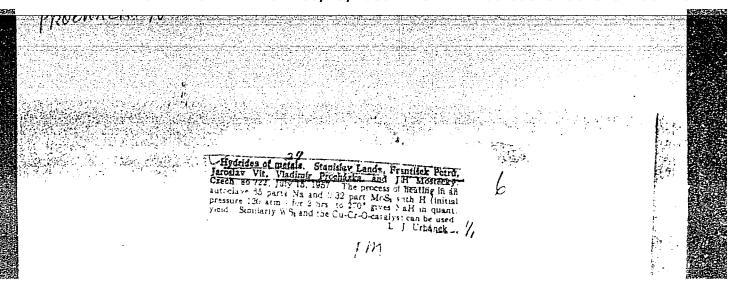
1. Research Institute for Natural Drugs, Prague, and Department of Chemistry and Chemical Engineering, University of Illinois, Urbana, Illinois.











CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their

Application. Elements. Oxides. Mineral Acids. Bases.

Salts.

Mbs Jour: Ref Zhur-Khim., No 8, 1959, 28042.

Author : Petru, F., Hajek, B., and Prochazka, V.

Inst

Title : Industrial Scale Production of Scandium and Scandium

Compounds.

Orig Pub: Chem Prumysl, 7, No 5, 230-232 (1957) (in Czech with

English and Russian summaries)

Abstract: Live steam is passed into a mixture of 850 kg of

the residue remaining after the processing of Zinwald tungstenate and 1700 liters cone HCl until the volume of the mixture reaches 2500 liters. To each 1000 liters of the solution thus obtained 120 liters

Card : 1/2

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CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Elements. Oxides. Mineral Acids. Bases. Salts.

Abs Jour: Ref Zhur-Khim., No 8, 1959, 28042.

of technical grade H_SiF₆ (27-30° Be) are added, after which the mixture is refluxed for 4-5 hours with wet /saturated/ steam, filtered, the filtrate is evaporated, and the residue is dried at about 40°, 5 kg of Sc concentrate containing about 40°, Sc₂O₃ are obtained. The product is ground in a ball mill, sintered at 600°, mixed with activated charcoal (6:1 ratio), and chlorinated in a tube packed with silicon (length 1 m, 0. D. 60 mm, I. D. 50 mm) placed in an electric furnace heated to 1000-1100°. The process used in the production of scandium oxide and of metallic Sc from ScCl₃ is described. -- I. Elinek.

Card : 2/2

PROSH HZAM, VIADINA

CZECHOSLOVAKIA/Cremical Technology - Chemical Products and

H-22

Application, Part 3. - Treatment of Natural Gases and Mineral Oil, Motor and Rocket Fuel, Lubricants.

Abs Jour :

: Ref Zhur - Khimiya, No 7, 1958, 22730

Author

: Vladimir Prochazka

Inst Title

: Production of Pure Methane from Natural Gas.

Orig Pub

: Sblrka praci vyzkumn. ust., 1957, A8, No 17-26, 35-46.

Abstract

: A method of producing considerable amounts of $CH_{\downarrow\downarrow}$ from natural gas was developed. The natural gas contained (in \mathcal{G}_h): CO_2 - 0.1, C_nH_m - 0.2, O_2 - 0.2, N_2 - 4.2, C_nH_{2n+2} -

-0.2, $\mathrm{CH_4}$ - 95.0 and S compounds - 0.029 g per cub.m. Activated carbon, metallic Ca and the method of repeated condensation were used for the purification. $\mathrm{CO_2}$, saturated and unsaturated hydrocarbons, water vapor, $\mathrm{O_2}$ and other gases are eliminated at the purification.

Card 1/2

CZECHOSLOVAKIA/Caemical Technology - Chemical Products and

H-22

Their Application, Part 3. - Treatment of Natural Gases and Mineral Oil, Motor and Rocket Fuel,

Lubricants.

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 22730

The analytical methods used for checking the purity of the produced CH_{h} are described.

Card 2/2

H-22

Proc ProchazKA, YLAdiMiR

CZECHOSLOVAKIA / Chemical Technology, Chemical Froducts and

Their Application, Fart 3. - Treatment of Solid

Combustible Minerals.

: Rof Zhur - Khim., No 14, 1958, No 47976. Abs Jour

: Bohumil Sule, Vledimir Frochezka. Author

Inst

: Gas Determination in Ges Carrying Coals. Title ·

: Sbirka preci vyzkumn. ust., 1957, A8, No. 17-26, 47 - 59. Orig Pub

: A modified method of Peters and Warneke was applied to the determination of gases physically combined with coal; its Abstract

main distinguishing feature is the application of a bell mill with inclined sheft. A semple of fresh coel in a sealed glass flask is put into theball mill; after the air in the mill has been pumped out, the mill is started. The glass splinters improve the milling considerably, and four hours

later the coal is a very fine powder of the grain size below

Gerd 1/2

CZECHOSLOVAKIA / Chemical technology, Chemical Products and
Their Application, Part 3. - Treatment of Solid
Combustible Minerals.

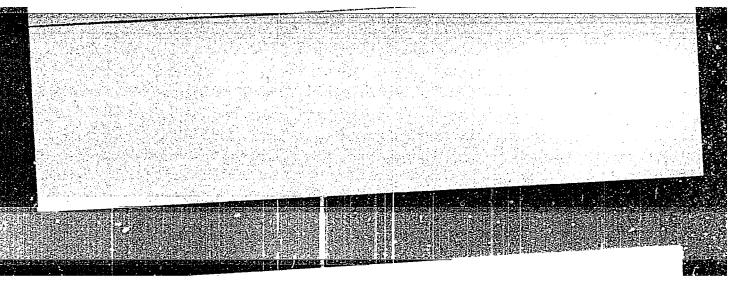
H-22

Abs J^Our : Ref Zhur - Khim, No 14, 1958, No 47976

O.001 mm. The separated gases are removed with a vacuum pump and analyzed after their volume has been measured. 17 samples of brown and regular coals of Czechoslovakia were studied by this method. The method proved to be suitable for systematic determination of gas contents in gas carrying coal seams, which allows to take measures for their degasing in proper time.

16

Cerd 2/2



PROCHAZKA, V.

CZECHOSLOVAKIA / Inorganic Chemistry. Complex Compounds.

C

Abs Jour: Ref Zhur-Khimiya, No 19, 1958, 63979

Author : Petru F, Prochazka V, Hajek B

: Not given

: On the Chemistry of the Rarer Elements. III. Inst The Extraction of Scandium in a Compact State. Title

Orig Pub: Collect. Czechosl. chem. communs, 1958, 23,

No 3, 367-371

Abstract: See RZhKhim, 1958, 28159.

Card 1/1

Metal hydrides. II. Reaction of alkali metals with hydrogen at higher pressures and temperatures. Stanislav Landa, Frantisek Petru, Jiri Mostecky, Jaroslav Vit, and Viadimire Prochazka (Vys. skola chem.-technol., Prague)

Chem. listy 52, 1357-9(1958); df. Czech. 86,722 (C.A. 52, 6737e).--KH, NaH, and Chem. listy 52, 1357-9(1958); df. Czech. 86,722 (C.A. 52, 6737e).--KH, NaH, and Chem. listy 52, 1357-9(1958); df. Czech. 86,722 (C.A. 52, 6737e).--KH, NaH, and Chem. listy 52, 1357-9(1958); df. Czech. 86,722 (C.A. 52, 6737e).--KH, NaH, and Chem. listy 52, 6737e)

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Z/009/60/000/04/004/041 E112/E253

5.2200(8)

Vít, J., Procházka, V., and Petrů, F About Lithium- and Sodium-Aluminium Hydride AUTHORS:

Chemický průmysl, 1960, Nr 4, pp 183-187 TITIE:

ABSTRACT: The authors have studied the preparation of sodium- and lithium-aluminium hydride from lithium or sodium hydride

and aluminium tribromide, according to reaction:

4 LiH - AIX₃ \rightarrow Li (AlH₄) + 3 LiX (X = Cl, Br).

A critical survey or existing methods is given and reasons for discrepancies in yield and quality of product are analysed. It is held, that these can be accounted for by two main factors: A) presence of traces of moisture in the reactants and B) inactivation of the surface of lithiumor sodium hydride. The inactivation is explained by lack of solubility of lithium chloride in the reaction medium, which may lead to sedimentation on the surface of lithium hydride. As a result of these considerations and their own preliminary studies, the authors have given preference to aluminium tribromide as a starting material for their synthesis. Aluminium tribromide has also better solubility Card 1/4 characteristics in benzene, than aluminium trichloride.

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Z/009/60/000/04/004/041 E112/E253

About Lithium- and Sodium-Aluminium Hydride

In preliminary preparative studies the two compounds were prepared as follows: 1) The lithium compound was produced by reacting a solution of aluminium tribromide, dissolved in benzene, with lithium hydride, using diethylether as reaction medium. 2) The sodium derivative was synthesised from aluminium tribromide in benzene and sodium hydride using tetrahydrofurane as reaction medium. The mixture of benzene and tetranydrofurane are the subject of Czechoslovak Patent 89.103 (15.3.1959). Diethyl ether has been found unsuitable, because the sodium aluminium hydride is decomposed in its presence. The importance of completely anhydrous conditions is again emphasized. If these conditions are adhered to, the addition of reaction catalysts can be dispensed with. It is pointed out that particularly in the preparation of sodium aluminium hydride the presence of free bromine, which could be formed from oxygen and aluminium tribromide, has a very deleterious oxygen and aluminium tribromide essential to carry out effect on yields. It is therefore essential to carry out the reaction in an atmosphere of nitrogen which had been the reaction in an atmosphere of nitrogen, which had been Card 2/4 previously freed from traces of oxygen. The authors have

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Z/009/60/000/04/004/041 E112/E253

About Lithium- and Sodium-Aluminium Hydride

studied the separation of lithium and sodium aluminium hydride from the respective reaction mixtures and have also studied the solubility of sodium aluminium hydride in a mixture of benzene and tetrahydrofurane. They have established that the solubility of the product was 4.5 grms in 100 cc of the solvent consisting of two parts by volume of tetrahydrofurane to one part by volume of benzene. Sodium-aluminium hydride was obtained by crystallisation from this mixture in colourless tetragonal crystals of up to a few mms in size. The crystallography is described in another Czechoslovak publication. The authors warn against the danger of explosion at the final drying of sodium aluminium hydride in vacuo. As a result of small-scale trials the authors then describe larger experiments, based on approximately 20 molar proportions. Experimental details and sketches of equipment are provided. starting material, lithium hydride and sodium hydride were prepared according to Czechoslovak Patent 86.722. Aluminium tribromide was prepared according to Inorganic Syntheses, Volume III, page 30. The drying of the solvents is des-Card 3/4 cribed in great detail. For the preliminary drying an

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About Lithium- and Sodium-Aluminium Hydride

alloy K-Na (60% to 40%) is suggested. The final drying is carried out either with lithium aluminium hydride as such, or with freshly prepared Grignard reagent. The yields of lithium-aluminium hydride and sodium-aluminium hydride were 89 to 92% and 88 to 93% respectively. A table illustrating some reactions of sodium-aluminium hydride is given. Acknowledgments are expressed to T. Bartovsky and P. Henger for their assistance in carrying out the here-described experimental work. There are 4 figures, 1 table and 33 references, 19 of which are English, 2 Soviet, 5 German, 3 French, 3 Czech and 1 Belgian.

Katedra anorganické chemie, Vysoká škola chemickotechnologická, Praha (Department of Inorganic Chemistry, University of Chemical Technology, Prague) ASSOCIATION:

December 15, 1959 SUBMITTED:

Card 4/4

